



PANJIT offers a broad portfolio of elite semiconductors, powering the world with robust quality, energy efficiency and high performance products as it meets the needs of customers in a wide variety of applications.



MOSFETs

- Low/Medium/High Voltage MOSFETs
- Dual, Load Switching
- Industry Standard Packages



Bipolar Junction Transistors-BJTs

- Dual Asymmetrical, Complementary



TVS Diodes

- High Temperature Stability
- High Reliability 200W~5KW
- Load Dump Suppressors 8KW



ESD Diodes

- Ultra-Low Capacitance
- High IPP, High/Low Speed
- Miniaturized Package



H-Type Schottky Rectifiers

- Ultra-Low Reverse Current (HTIR)
- High Efficiency at High Junction Temp.
- Low Forward Voltage Drop (VF)



Hyper Fast Recovery Rectifiers

- Low Reverse Recovery Time and Leakage Current
- High Temperature Stability



Power Management ICs

- AC/DC Controller
- Buck/Boost/LDO/Power Switch/BMS



Bridge Rectifiers

- Surface Mount and Through-Hole
- Glass Passivated Low VF Bridge Rectifier
- Ultra-Low VF Bridge Rectifier with Super Low Leakage Current



Automotive AEC-Q MOSFETs

- Single, Dual, Complementary
- -60V to +100V



Automotive AEC-Q TVS Diodes

- TVS Load Dump Suppressors
- CAN Bus ESD Protection
- Battery Stack Protection



Automotive AEC-Q Rectifiers

- General Rectifiers up to 10A



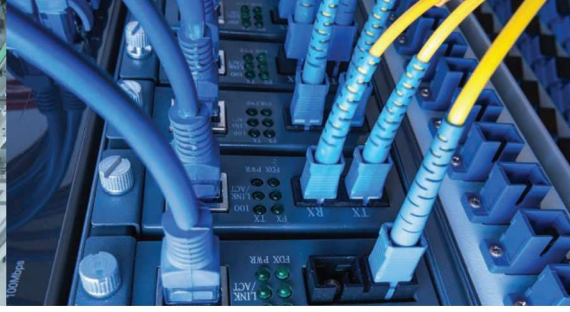
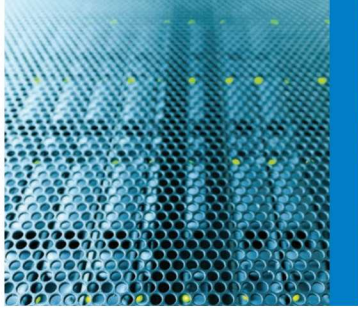
Automotive AEC-Q BJTs

- Single, Dual, Complementary
- LED Lighting Current Switch



Silicon Carbide (SiC) Schottky Barrier Diodes

- 650-1200V
- 2-40A



PANJIT's New Ultra-Low V_F Bridge Series: Optimizing Power Efficiency and Reliability



PANJIT proudly introduces its latest Ultra-Low V_F Bridge Rectifier Series. Engineered with oxide planar chip junction technology and featuring PI p layers, this series is poised to redefine the standards of power efficiency and reliability across various applications.

Low Forward Voltage & Leakage Current

PANJIT's Ultra-Low V_F Bridge Series stands out for its superior performance and durability. Experience unparalleled efficiency in the industry with incredibly low forward voltage of $0.74V@125^{\circ}C^*$, which reduces energy waste and optimizing power utilization. With minimal actual leakage current at $125^{\circ}C^*$, this bridge rectifier series guarantees efficient power transmission, enhancing system reliability and stability, even in the most demanding conditions.

Versatile High-power Applications

Benefit from the superior wafer fabrication process stability offered by PANJIT's Ultra-Low V_F Bridge Series. This stability translates to consistent, high performance in a wide array of applications, including [server power](#), AI power, telecom power, gaming power, and 80+ platinum/titanium PC power and other high-power applications.

Environmentally Conscious and Compliant

PANJIT's Ultra-Low V_F Bridge Series is engineered with the environment in mind. The efficiency optimization not only benefits the products' performance but also contributes to a greener, more sustainable planet. The series is also fully compliant with EU RoHS 2.0 standards and halogen-free according to IEC 61249 standard, this series minimizes its ecological footprint. Choosing PANJIT means choosing sustainability.

Setting New Standards

PANJIT's Ultra-Low V_F Bridges stand out with three groundbreaking features that set a new standard for bridge rectifiers in the industry and pave the way for powerful performance technology and a sustainable future for active components.

1. Highest Forward Current in the Industry ($I_F = 35A$)*
2. Lowest Forward Voltage in the Industry ($V_F = 0.74V$)*
3. Maximum Operating Junction Temperature of $175\text{ }^{\circ}\text{C}$ * (T_J Max.), maximize the efficiency of high-power applications and improve heat dissipation capabilities.

PANJIT International Inc.

Selection guides for: Ultra Fast Recovery Rectifiers (TRR = 50 - 10)

Part Number	IF A	VRRM Max. V	TRR nS	IFSM A	VF Max. V	@IF A	IR Max. μA	@VRRM V	Package
US1AAFC	1	50	50	30	1	1	1	1	50 SMAF-C
US1BAFC	1	100	50	30	1	1	1	1	100 SMAF-C
US1DAFC	1	200	50	30	1	1	1	1	200 SMAF-C
US1GAFC	1	400	50	30	1.4	1	1	1	400 SMAF-C
US1JAFC	1	600	100	30	1.7	1	1	1	600 SMAF-C
US1KAFC	1	800	100	30	1.7	1	1	1	800 SMAF-C
US1MAFC	1	1000	100	30	1.7	1	1	1	1000 SMAF-C
US1001FL	1	100	50	30	1	1	1	1	100 SOD-123FL
US1002FL	1	200	50	30	1	1	1	1	200 SOD-123FL
US1004FL	1	400	50	30	1.4	1	1	1	400 SOD-123FL
US1006FL	1	600	100	30	1.7	1	1	1	600 SOD-123FL
US1008FL	1	800	100	30	1.7	1	1	1	800 SOD-123FL
UF1AF	1	50	50	30	1	1	1	1	50 SMBF
UF1BF	1	100	50	30	1	1	1	1	100 SMBF
UF1DF	1	200	50	30	1	1	1	1	200 SMBF
UF1GF	1	400	50	30	1.4	1	1	1	400 SMBF
UF1JF	1	600	100	30	1.7	1	1	1	600 SMBF
US1AWG	1	50	50	30	1	1	10	10	50 SMA(W)
US1BWG	1	100	50	30	1	1	10	10	100 SMA(W)
US1DWG	1	200	50	30	1	1	10	10	200 SMA(W)
US1GWG	1	400	50	30	1.3	1	10	10	400 SMA(W)
US1JWG	1	600	100	30	1.7	1	10	10	600 SMA(W)
US1KWG	1	800	100	30	1.7	1	10	10	800 SMA(W)
US1MWG	1	1000	100	30	1.7	1	10	10	1000 SMA(W)
US1A	1	50	50	30	1	1	1	1	50 SMA
US1B	1	100	50	30	1	1	1	1	100 SMA
US1D	1	200	50	30	1	1	1	1	200 SMA
US1G	1	400	50	30	1.3	1	1	1	400 SMA
US1J	1	600	100	30	1.7	1	1	1	600 SMA
US1K	1	800	100	30	1.7	1	1	1	800 SMA
US1M	1	1000	100	30	1.7	1	1	1	1000 SMA
US1R	1	1300	75	30	1.9	1	1	1	1300 SMA
U1D	1	200	50	30	1	1	1	1	200 SMAS
U1G	1	400	50	30	1.3	1	1	1	400 SMAS
U1J	1	600	100	30	1.7	1	1	1	600 SMAS
U1K	1	800	100	30	1.7	1	1	1	800 SMAS
U1M	1	1000	100	30	1.7	1	1	1	1000 SMAS
UF1A	1	50	50	30	1	1	1	1	50 SMB
UF1B	1	100	50	30	1	1	1	1	100 SMB

UF1D	1	200	50	30	1	1	1	200 SMB
UF1G	1	400	50	30	1.3	1	1	400 SMB
UF1J	1	600	100	30	1.7	1	1	600 SMB
UF1K	1	800	100	30	1.7	1	1	800 SMB
UF1M	1	1000	100	30	1.7	1	1	1000 SMB
UF100G	1	50	50	30	1	1	1	50 DO-41
UF101G	1	100	50	30	1	1	1	100 DO-41
UF102G	1	200	50	30	1	1	1	200 DO-41
UF104G	1	400	50	30	1.3	1	1	400 DO-41
UF106G	1	600	100	30	1.7	1	1	600 DO-41
UF108G	1	800	100	30	1.7	1	1	800 DO-41
UF1010G	1	1000	100	30	1.7	1	1	1000 DO-41
UF150G	1.5	50	50	50	1	1.5	1	50 DO-15
UF151G	1.5	100	50	50	1	1.5	1	100 DO-15
UF152G	1.5	200	50	50	1	1.5	1	200 DO-15
UF154G	1.5	400	50	50	1.3	1.5	1	400 DO-15
UF156G	1.5	600	100	50	1.7	1.5	1	600 DO-15
UF158G	1.5	800	100	50	1.7	1.5	1	800 DO-15
UF1510G	1.5	1000	100	50	1.7	1.5	1	1000 DO-15
UFA15M	1.5	1000	100	50	1.7	1.5	1	1000 SMA
UF2AF	2	50	50	50	1	2	1	50 SMBF
UF2BF	2	100	50	50	1	2	1	100 SMBF
UF2DF	2	200	50	50	1	2	1	200 SMBF
UF2GF	2	400	50	50	1.4	2	1	400 SMBF
UF2JF	2	600	100	50	1.7	2	1	600 SMBF
UF2A	2	50	50	50	1	2	1	50 SMB
UF2B	2	100	50	50	1	2	1	100 SMB
UF2D	2	200	50	50	1	2	1	200 SMB
UF2G	2	400	50	50	1.3	2	1	400 SMB
UF2J	2	600	100	50	1.7	2	1	600 SMB
UF2K	2	800	100	50	1.7	2	1	800 SMB
UF2M	2	1000	100	50	1.7	2	1	1000 SMB
UF200G	2	50	50	60	1	2	1	50 DO-15
UF201G	2	100	50	60	1	2	1	100 DO-15
UF202G	2	200	50	60	1	2	1	200 DO-15
UF204G	2	400	50	60	1.3	2	1	400 DO-15
UF206G	2	600	100	60	1.7	2	1	600 DO-15
UF208G	2	800	100	60	1.7	2	1	800 DO-15
UF2010G	2	1000	100	60	1.7	2	1	1000 DO-15
UF3A	3	50	50	100	1	3	1	50 SMC
UF3B	3	100	50	100	1	3	1	100 SMC
UF3D	3	200	50	100	1	3	1	200 SMC
UF3G	3	400	50	100	1.3	3	1	400 SMC
UF3J	3	600	100	100	1.7	3	1	600 SMC
UF3K	3	800	100	100	1.7	3	1	800 SMC
UF3M	3	1000	100	100	1.7	3	1	1000 SMC
UF300G	3	50	50	150	1	3	1	50 DO-201AD

UF301G	3	100	50	150	1	3	1	100 DO-201AD
UF302G	3	200	50	150	1	3	1	200 DO-201AD
UF304G	3	400	50	150	1.3	3	1	400 DO-201AD
UF306G	3	600	100	150	1.7	3	1	600 DO-201AD
UF308G	3	800	100	150	1.7	3	1	800 DO-201AD
UF3010G	3	1000	100	150	1.7	3	1	1000 DO-201AD
UF408G	4	800	75	150	1.85	4	10	800 DO-201AD
UF4010G	4	1000	75	150	1.85	4	10	1000 DO-201AD
UF5GI	5	400	50	80	1.25	5	1	400 SMC
UF504IG	5	400	50	80	1.25	5	1	400 DO-201AD
UF800	8	50	50	125	1	8	1	50 TO-220AC
UF801	8	100	50	125	1	8	1	100 TO-220AC
UF802	8	200	50	125	1	8	1	200 TO-220AC
UF803	8	300	50	125	1.3	8	1	300 TO-220AC
UF804	8	400	50	125	1.3	8	1	400 TO-220AC
UF806	8	600	100	125	1.7	8	1	600 TO-220AC
UF808	8	800	100	125	1.7	8	1	800 TO-220AC
UF800F	8	50	50	125	1	8	1	50 ITO-220AC
UF801F	8	100	50	125	1	8	1	100 ITO-220AC
UF802F	8	200	50	125	1	8	1	200 ITO-220AC
UF803F	8	300	50	125	1.3	8	1	300 ITO-220AC
UF804F	8	400	50	125	1.3	8	1	400 ITO-220AC
UF806F	8	600	100	125	1.7	8	1	600 ITO-220AC
UF808F	8	800	100	125	1.7	8	1	800 ITO-220AC
UF1000	10	50	50	150	1	10	1	50 TO-220AC
UF1001	10	100	50	150	1	10	1	100 TO-220AC
UF1002	10	200	50	150	1	10	1	200 TO-220AC
UF1003	10	300	50	150	1.3	10	1	300 TO-220AC
UF1004	10	400	50	150	1.3	10	1	400 TO-220AC
UF1006	10	600	100	150	1.7	10	1	600 TO-220AC
UF1008	10	800	100	150	1.7	10	1	800 TO-220AC
UF1000F	10	50	50	150	1	10	1	50 ITO-220AC
UF1001F	10	100	50	150	1	10	1	100 ITO-220AC
UF1002F	10	200	50	150	1	10	1	200 ITO-220AC
UF1003F	10	300	50	150	1.3	10	1	300 ITO-220AC
UF1004F	10	400	50	150	1.3	10	1	400 ITO-220AC
UF1006F	10	600	100	150	1.7	10	1	600 ITO-220AC
UF1008F	10	800	100	150	1.7	10	1	800 ITO-220AC
UF1000CT	10	50	50	125	1	5	1	50 TO-220AB
UF1001CT	10	100	50	125	1	5	1	100 TO-220AB
UF1002CT	10	200	50	125	1	5	1	200 TO-220AB
UF1003CT	10	300	50	125	1.3	5	1	300 TO-220AB
UF1004CT	10	400	50	125	1.3	5	1	400 TO-220AB
UF1006CT	10	600	100	125	1.7	5	1	600 TO-220AB
UF1000FCT	10	50	50	125	1	5	1	50 ITO-220AB
UF1001FCT	10	100	50	125	1	5	1	100 ITO-220AB
UF1002FCT	10	200	50	125	1	5	1	200 ITO-220AB

UF1003FCT	10	300	50	125	1.3	5	1	300 ITO-220AB
UF1004FCT	10	400	50	125	1.3	5	1	400 ITO-220AB
UF1006FCT	10	600	100	125	1.7	5	1	600 ITO-220AB
UF1600CT	16	50	50	125	1	8	1	50 TO-220AB
UF1601CT	16	100	50	125	1	8	1	100 TO-220AB
UF1602CT	16	200	50	125	1	8	1	200 TO-220AB
UF1603CT	16	300	50	125	1.3	8	1	300 TO-220AB
UF1604CT	16	400	50	125	1.3	8	1	400 TO-220AB
UF1606CT	16	600	100	125	1.7	8	1	600 TO-220AB
UF1608CT	16	800	100	125	1.7	8	1	800 TO-220AB
UF1600FCT	16	50	50	125	1	8	1	50 ITO-220AB
UF1601FCT	16	100	50	125	1	8	1	100 ITO-220AB
UF1602FCT	16	200	50	125	1	8	1	200 ITO-220AB
UF1603FCT	16	300	50	125	1.3	8	1	300 ITO-220AB
UF1604FCT	16	400	50	125	1.3	8	1	400 ITO-220AB
UF1606FCT	16	600	100	125	1.7	8	1	600 ITO-220AB
UF2000CT	20	50	50	150	1	10	1	50 TO-220AB
UF2001CT	20	100	50	150	1	10	1	100 TO-220AB
UF2002CT	20	200	50	150	1	10	1	200 TO-220AB
UF2003CT	20	300	50	150	1.3	10	1	300 TO-220AB
UF2004CT	20	400	50	150	1.3	10	1	400 TO-220AB
UF2006CT	20	600	100	150	1.7	10	1	600 TO-220AB
UF2002FCT	20	200	50	150	1	10	1	200 ITO-220AB
UF2003FCT	20	300	50	150	1.3	10	1	300 ITO-220AB
UF2004FCT	20	400	50	150	1.3	10	1	400 ITO-220AB
UF2006FCT	20	600	100	150	1.7	10	1	600 ITO-220AB
UF3006PT	30	600	90	250	1.7	15	10	600 TO-3P/TO-247AD