



FAST RECOVERY PLASTIC RECTIFIER

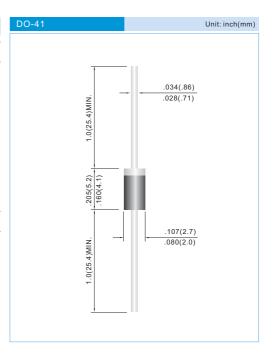
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

FEATURES

- · High current capability.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- · Low leakage.
- Exceeds environmental standards of MIL-S-19500/228
- · Fast switching for high efficiency.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Molded plastic, DO-41
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: Color Band denotes cathode end
- Mounting Position: Any
- Weight: 0.0118 ounce, 0.336 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER		PS100R	PS101R	PS102R	PS104R	PS106R	PS108R	PS1010R	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =55°C	I _{F(AV)}	1.0						А	
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load(JEDEC method)	I _{FSM}	30					А		
Maximum Forward Voltage at 1.0A	V _F	1.3					V		
Maximum DC Reverse Current at Rated DC T_j =25°C Blocking Voltage T_j =100°C	I _R	5.0 500						μΑ	
Maximum Reverse Recovery Time (Note 1)	t _{rr}	150 250 500		00	ns				
Typical Junction Capacitance (Note 2)	C¹	12				pF			
Typical Thermal Resistance (Note 3)	R _{eJA} R _{eJC}	110 40				°C / W			
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150			°C				

NOTES:1. Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{Π} =.25A

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 3. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length with both leads equally heatsink.





RATING AND CHARACTERISTIC CURVES

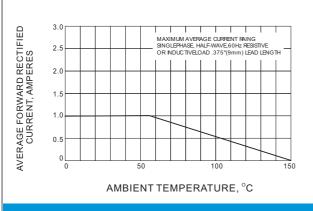


Fig.1 FORWARD CURRENT DERATING CURVE

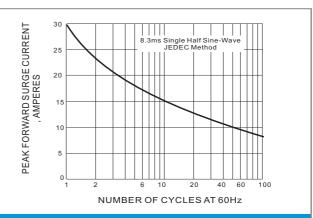


Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

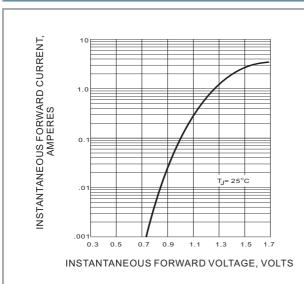


Fig.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

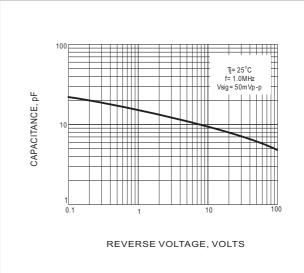
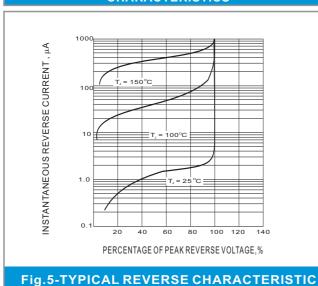


Fig.4 TYPICAL JUNCTION CAPACITANCE







Part No_packing code_Version

PS100R_AY_00001 PS100R_AY_10001 PS100R_B0_00001 PS100R_B0_10001 PS100R_R2_00001 PS100R_R2_10001

For example:



Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code			
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	Т	26mm	Х						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.