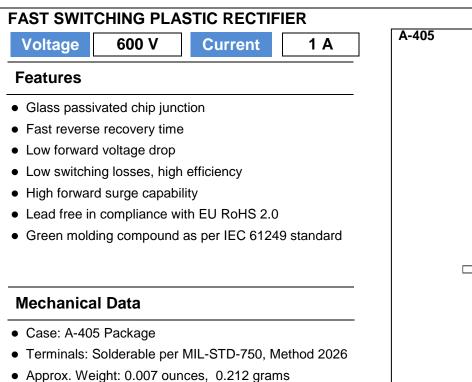
4

5

Catho

Anode

PS106RSG



Maximum Ratings and Thermal Characteristics ($T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	600	V
Maximum Rms Voltage	V _{RMS}	420	V
Maximum Dc Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Current	I _{F(AV)}	1	А
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	30	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	6	pF
Typical Thermal Resistance	${R_{\theta JA}}^{(1)}$ ${R_{\theta JL}}^{(2)}$	150 42	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





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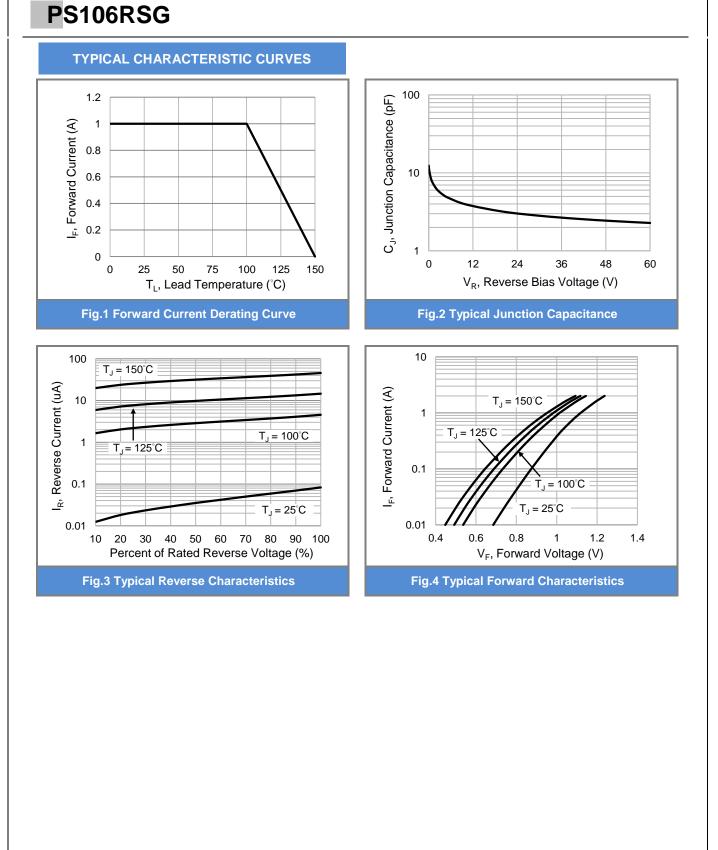
Electrical Characteristics ($T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_F = 0.5 \text{ A}, T_J = 25 \degree \text{C}$	-	1	-	V
		$I_F = 1 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	1.3	
		I _F = 0.5 A, T _J = 125 °C	-	0.88	-	
		I _F = 1 A, T _J = 125 °C	-	0.99	-	
Reverse Current	I _R	$V_R = 600 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	5	
		V _R = 600 V,T _J = 125 °C	-	15	-	uA
Reverse Recovery Time	T _{RR}	I _F = 0.5 A, I _R = 1 A,	-	-	250	ns
		I _{RR} = 0.25 A, T _J = 25 °C				

NOTES:

1. The testing condition of the thermal resistance (junction to ambient) is based on 10mm lead length between mini copper pads.

2. The testing condition of the thermal resistance (junction to lead) is based on 10mm lead length between two 10cm x 10cm copper pads.







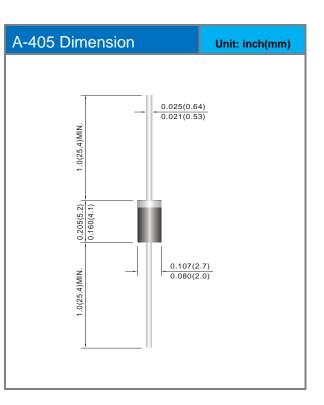




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PS106RSG_AY_00001	A-405	5K pcs / Ammo	P106RSG	Halogen free

Packaging Information & Mounting Pad Layout





PS106RSG

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