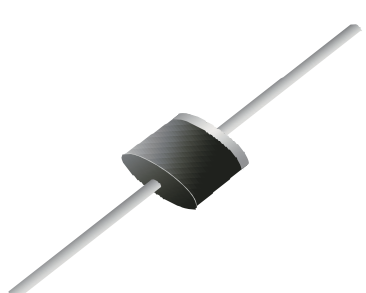





5.0 Amp. Glass Passivated Fast Recovery Rectifier

<div style="font-size: 24px; font-weight: bold; margin-bottom: 10px;">P-6</div> 	Voltage 50V to 1000V	Current 5.0 A at 55 °C	
			
	FEATURES <ul style="list-style-type: none"> Low profile package Low power losses, high efficiency High surge current capability Cavity-free glass-passivated junction Low forward voltage drop Solder dip 260°C, 10s AEC-Q101 qualified Fast switching for high efficiency Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 		  RoHS COMPLIANT
	MECHANICAL DATA <ul style="list-style-type: none"> Case: P-6. Epoxy meets UL 94V-0 flammability rating. Polarity: Color band denotes cathode end. Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test 		
TYPICAL APPLICATIONS For use in fast switching rectification of power supply, inverters, converters, and freewheeling diodes for consumer, and telecommunication.			

Maximun Ratings and Electrical Characteristics at 25 °C

		RGP 50A	RGP 50B	RGP 50D	RGP 50G	RGP 50J	RGP 50K	RGP 50M
V_{RRM}	Peak Recurrent Reverse Voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward Current at $T_{amb} = 55\text{ °C}$	5 A						
I_{FRM}	Recurrent Peak Forward Current	60 A						
I_{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	300 A						
t_{rr}	Maximum reverse recovery time from $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$	150 ns				250 ns	500 ns	
T_j	Operating Temperature Range	-65 to +175 °C						
T_{stg}	Storage Temperature Range	-65 to +175 °C						
E_{RSM}	Maximum non Repetitive Peak Reverse Avalanche energy. $I_R = 1\text{ A}$; $T_j = 25\text{ °C}$	20 mJ						

Electrical Characteristics at $T_{amb} = 25\text{ °C}$

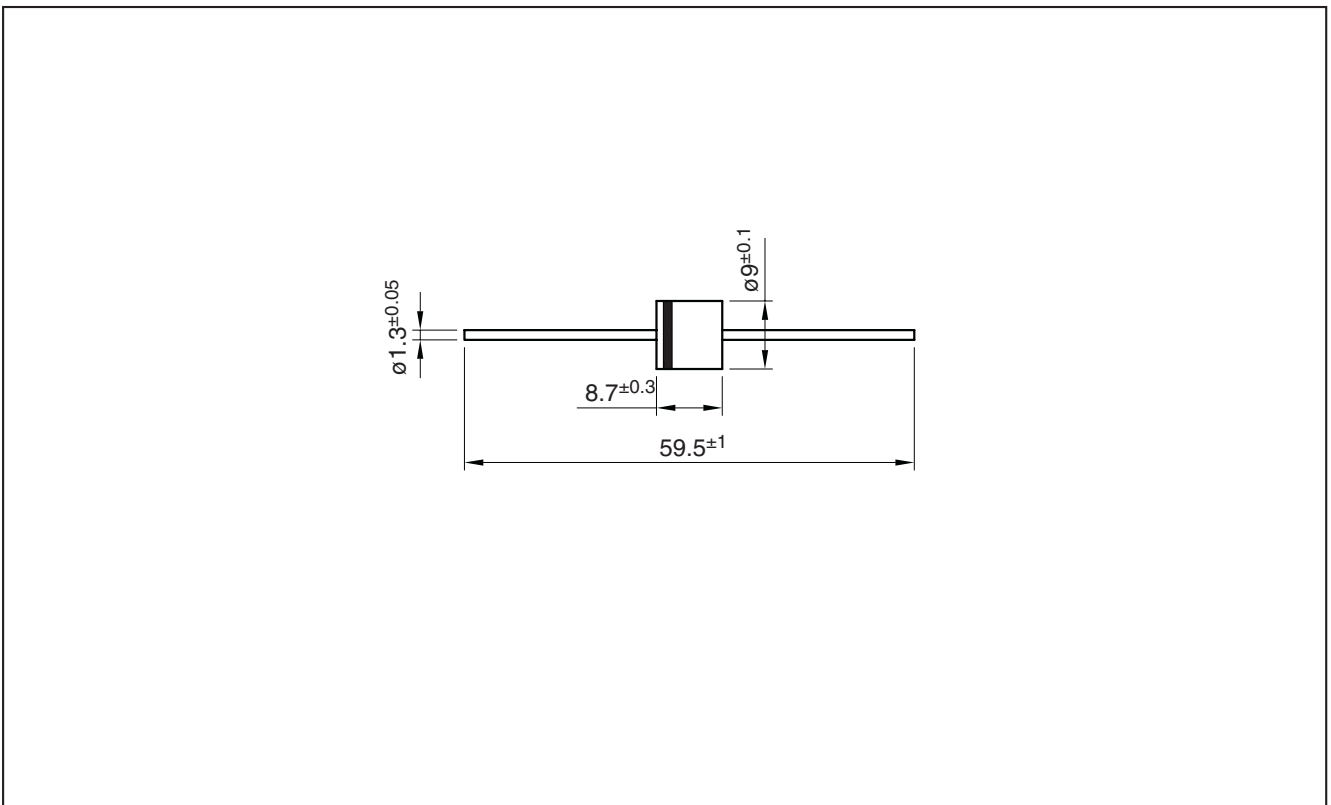
V_F	Maximum Forward Voltage Drop at $I_F = 5\text{ A}$	1.3 V
I_R	Maximum Reverse Current at V_{RRM} at 25 °C	5 μ A
$R_{th(j-a)}$	Maximum Thermal Resistance ($l = 10\text{mm.}$)	10 °C/W

5.0 Amp. Glass Passivated Fast Recovery Rectifier

Ordering information

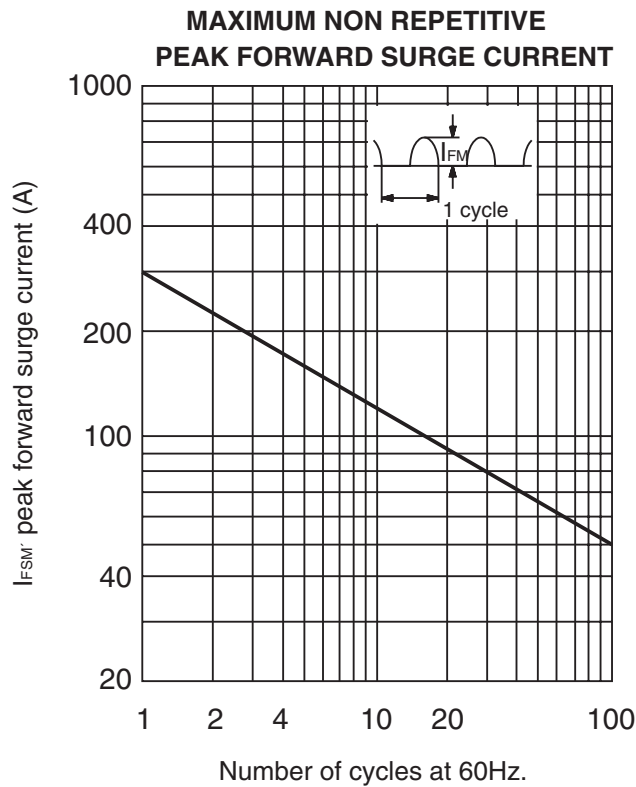
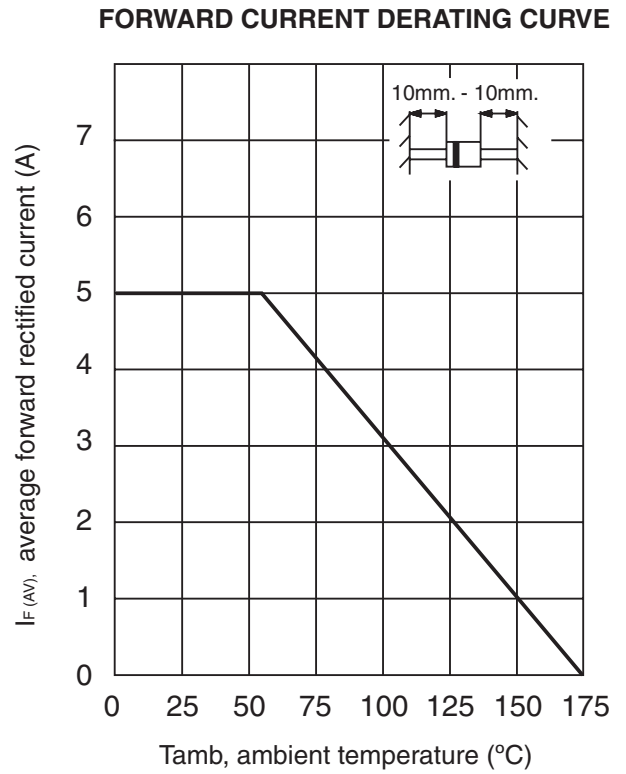
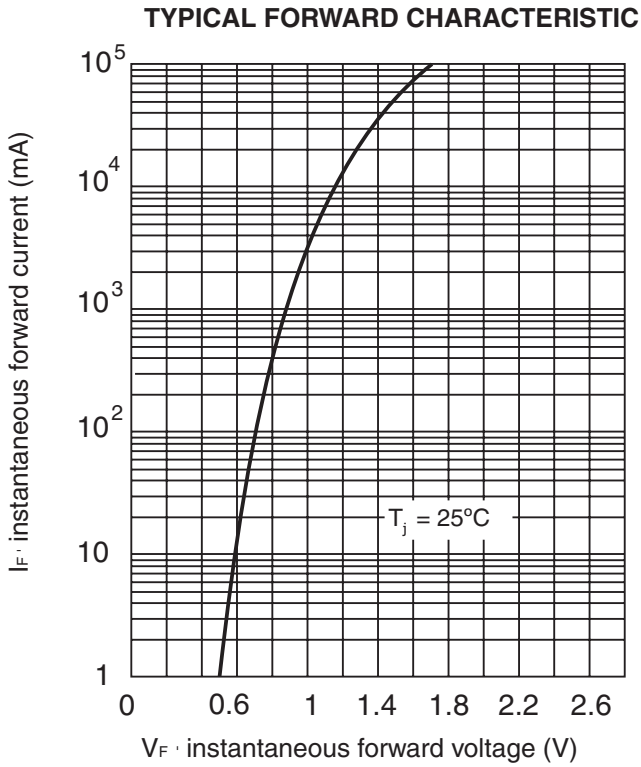
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
RGP50M AMP	AMP	AMMO BOX	400	1.968
RGP50M TR	TR	14" diameter tape and reel	800	1.968

Package Outline Dimensions: (mm) P-6



5.0 Amp. Glass Passivated Fast Recovery Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)



5.0 Amp. Glass Passivated Fast Recovery Rectifier**Revision History**

Date	Revision	Description of Changes
12-Sep-1998	0	Original Data Sheet
07-Dec-2016	1	Format update

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