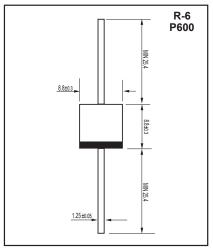


# **10A05G TO 10A10G**

## STANDARD RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 10.0 Ampers



Dimensions in millimeters

#### **FEATURES**

- ◆ Glass Passivation Junction
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- → High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375″(9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: R-6 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.072 ounce, 2.05 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

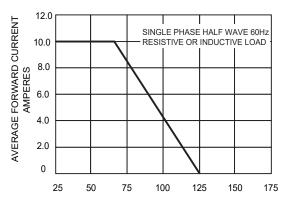
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	10A05G	10A1G	10A2G	10A4G	10A6G	10A8G	10A10G	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	I(AV)	10.0							Amps
0.375"(9.5mm) lead length	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	IFSM							Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 10.0A	VF	1.1							Volts
Maximum DC reverse current Ta=25°C	Ι.	l <sub>R</sub> 10.0 250.0							uA
at rated DC blocking voltage T <sub>A</sub> =100°C	lR								
Typical thermal resistance (NOTE 1)	Rq-JA	10.0						°C/W	
Operating junction and storage temperature range	Т <sub>J</sub> ,Тsтg	-55 to +150						°C	

Note: 1.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

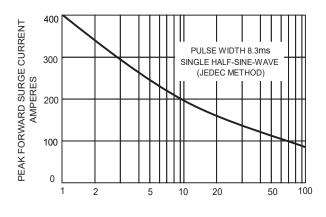


FIG. 1 - FORWARD CURRENT DERATING CURVE



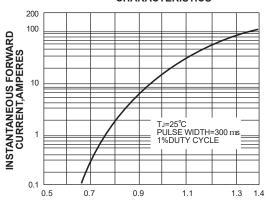
AMBIENT TEMPERATURE

FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT



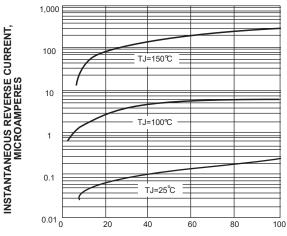
NUMBER OF CYCLES AT 60Hz

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLEAGE, VOLTS

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF PEAK REVERSE VOLTAGE,%



### Disclaimer

Unauthorized copying and modification of technical documents from Powersi is prohibited.

Powersi is subject to change without notice. Please refer to our web site for the latest documents.

The application shown here is an example of standard use and operation. It is the responsibility of the customer to understand the specific purpose. Powersi makes no representations or warranties that it is suitable for the designated use, such as any application or life sustaining equipment, such as medical equipment, transportation equipment, aerospace equipment, etc., that is not designed and authorized for use with a high level of equipment reliability, or related to human life safety, and related to lifes-aving. Customers who use or sell these products for such applications are at their own risk and Powersi does not.