Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Ampere

GENERAL PURPOSE SILICON RECTIFIER

Features

- ◆ 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

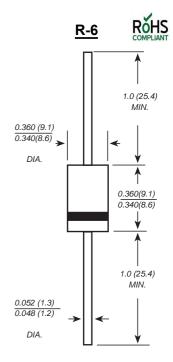
Case: JEDEC R-6 Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

Weight: 0.072 ounce, 2.05 grams



Dimensions in inches and (millimeters)

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%.

Parameter		MDD 6A05	MDD 6A1	MDD 6A2	MDD 6A4	MDD 6A6	MDD 6A8	MDD 6A10	UNITS
Marking Code	SYMBOLS								
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	lana	I _(AV) 6.0						А	
0.375"(9.5mm) lead length at T _A =60°C	I(AV)	(AV)							
Peak forward surge current									
8.3ms single half sine-wave superimposed	IFSM	IFSM 400						Α	
on rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 6.0A	VF	0.95							V
Maximum DC reverse current Ta=25°C		I _R 10.0 400						μA	
at rated DC blocking voltage Ta=100°C	IR								
Typical junction capacitance (NOTE 1)	Сл	150						pF	
Typical thermal resistance (NOTE 2)	R θ Ja	10.0						°C/W	
Operating junction and storage temperature range	Т _J ,Тsтg	-50 to +150						°C	

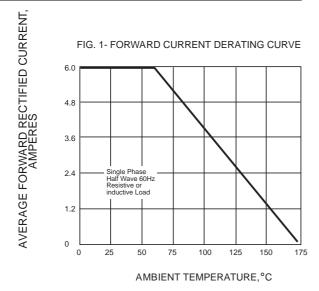
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

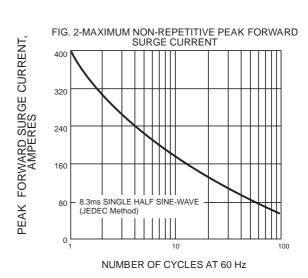
2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

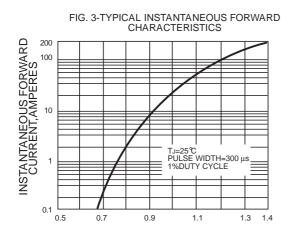
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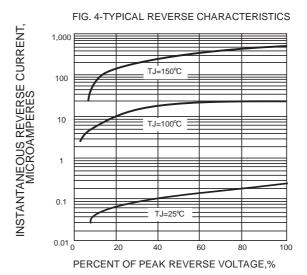


Ratings And Characteristic Curves

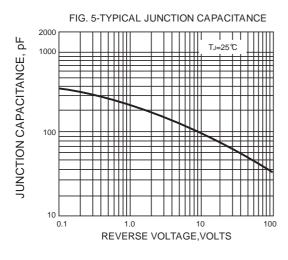




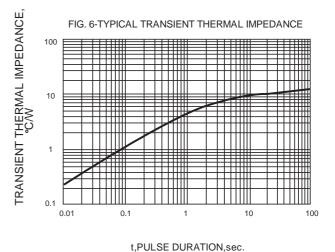




INSTANTANEOUS FORWARD VOLTAGE, VOLTS



The curve above is for reference only.



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