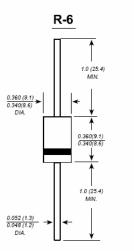


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6A05 THRU 6A10

GENERAL PURPOSE SILICON RECTIFIER

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



Dimensions in inches and (millimeters)

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. (2.3ka) tension
- This is a Pb Free Device
- ◆ All SMC parts are traceable to the wafer lot
- ◆ Additional testing can be offered upon request

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

Marking: Part Name, SSG and Date Code

MARKING DIAGRAM



Where XXXXX is YYWWL

6A05 = Part Name = SSG SSG = Year YΥ WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

ORDERING INFORMATION

Device	Package	Shipping
6A05-6A10	R-6 (Pb-Free)	500pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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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	6A05	6A1	6A2	6A4	6A6	6A8	6A10	UNITS
Maximum repetitive peak reverse voltage		50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage		35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage		50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at T₄=60 ℃		6.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		400						Amps	
Maximum instantaneous forward voltage at 6.0A		0.95						Volts	
Maximum DC reverse current Ta=25 ℃ at rated DC blocking voltage Ta=100 ℃	lR	10.0 400					μА		
Typical junction capacitance (NOTE 1)		150						pF	
Typical thermal resistance (NOTE 2)		10.0						°C/W	
Operating junction and storage temperature range		-65 to +175						°C	

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

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

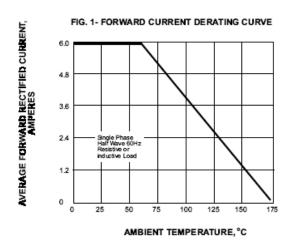
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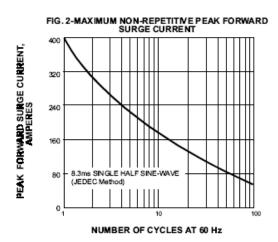
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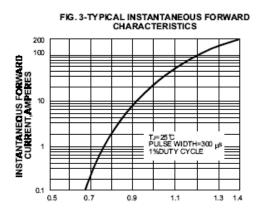


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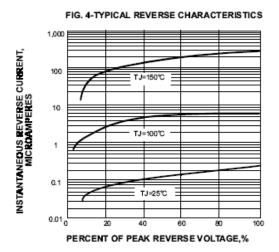
RATINGS AND CHARACTERISTIC CURVES 6A05 THRU 6A10

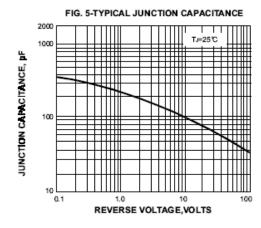


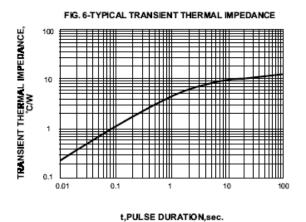




INSTANTANEOUS FORWARD VOLEAGE, VOLTS







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