



AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

6A05S THRU 6A10S

VOLTAGE RANGE
CURRENT

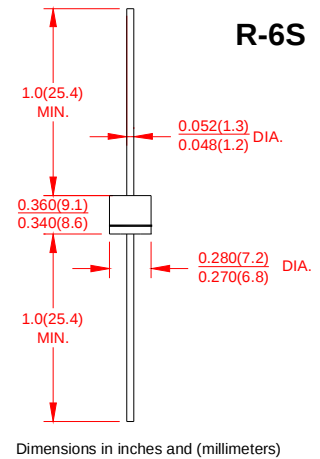
50 to 1000 Volts
1.0 Ampere

FEATURES

- Low coat construction
- Low forward voltage
- High forward surge current capability
- High temperature soldering guaranteed:
260/10 secods.0.375"(9.5mm)lead length

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.06ounce, 1.7 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 derate current by 20%

		SYMBOLS	6A05S	6A1S	6A2S	6A4S	6A6S	6A8S	6A10S	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375”(9.5mm) lead length at T _A = 60℃		I _(AV)	6.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	250							Amps
Maximum Instantaneous Forward Voltage @ 6.0A		V _F	0.95							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25℃	I _R	10.0							μA
	T _A = 100℃		500							
Maximum Full Load Reverse Current, full cycle average 0.375”(9.5mm)lead length at T _L =105℃		I _{R(AV)}	500							μA
Typical Junction Capacitance (Note 2)		C _J	100							pF
Typical Thermal Resistance (Note 1)		R _{θJA}	10							℃/W
Operating Junction Temperature Range		T _J	(-55 to +150)							℃
Storage Temperature Range		T _{STG}	(-55 to +150)							℃

Notes:

1. Thermal Resistance from junction to Ambient at .375"(9.5mm)lead length, PBC.mounted with 1.1"× 1.1"(30mm× 30mm)copper pads.
2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC



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RATING AND CHARACTERISTIC CURVES 6A05S Thru 6A10S

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

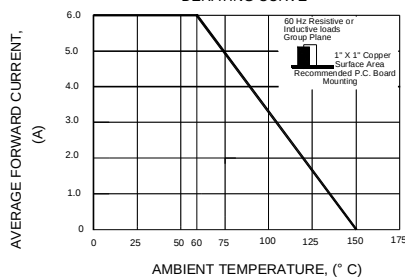


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

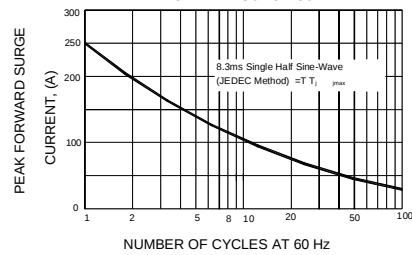


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

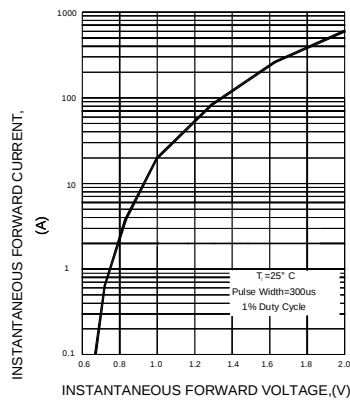


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

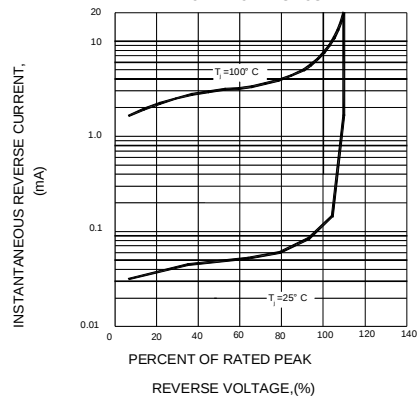


FIG.5-TYPICAL JUNCTION CAPACITANCE

