

10A05 THRU 10A10

GENERAL PURPOSE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 10 Ampere

FEATURES

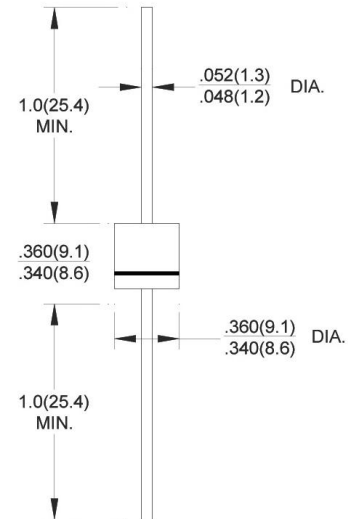
- ◆ Low forward voltage drop
- ◆ Low leakage current
- ◆ High forward surge capability
- ◆ High temperature soldering guaranteed
- ◆ 260°C/10 seconds, 0.375" (9.5mm) lead length at 5 lbs(2.3kg)

tension

Mechanical Data

- ◆ Case: Transfer molded plastic
- ◆ Epoxy: UL94V-0 rate flame retardant
- ◆ Polarity: Color band denotes cathode end
- ◆ Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- ◆ Mounting position: Any

R-6



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	10A05	10A1	10A2	10A4	10A6	10A8	10A10	UNIT
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 at TA=75°C	I(AV)	10							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	IFSM	400							Amps
Maximum Instantaneous Forward Voltage at 1.0A	VF	1.1							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	TA = 25°C	10							uA
	TA = 125°C	100							
Typical Junction Capacitance (NOTE 1)	Cj	125							pF
Typical Thermal Resistance (NOTE 2)	RθJA	8							°C/W
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150							°C

Note: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

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RATING AND CHARACTERISTIC CURVES 10A05 THRU 10A10

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

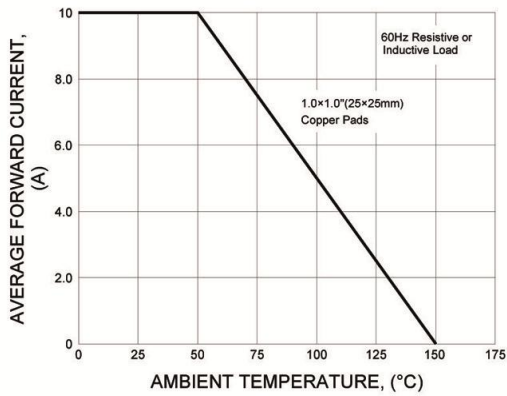


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

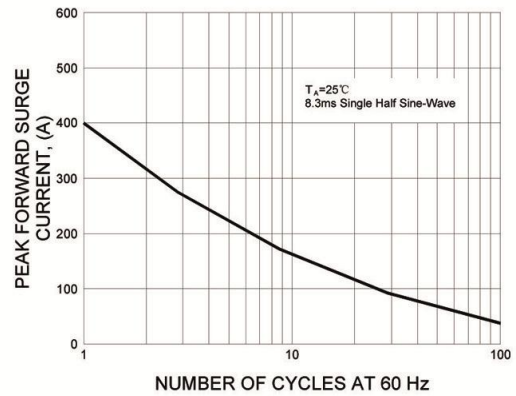


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

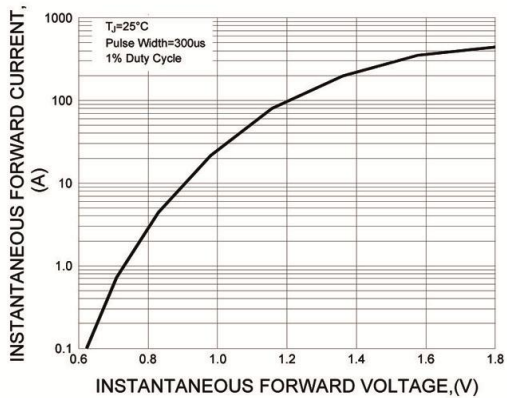


FIG.4-TYPICAL REVERSE CHARACTERISTICS

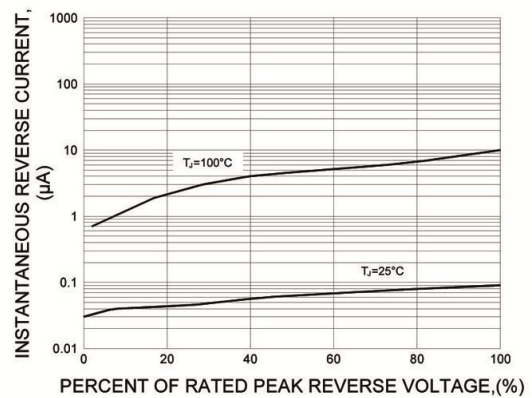
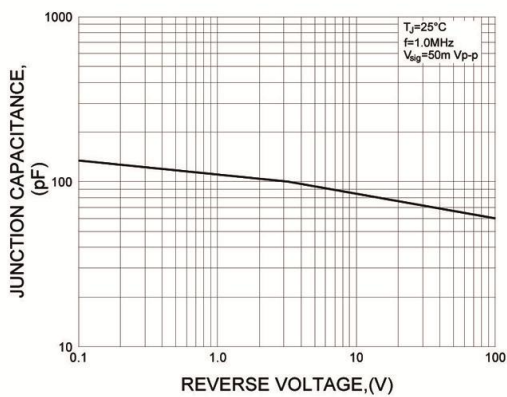


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.