8A05 THRU 8A10

GENERAL PURPOSE PLASTIC SILICON RECTIFIER

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HORNBY ELECTRONIC

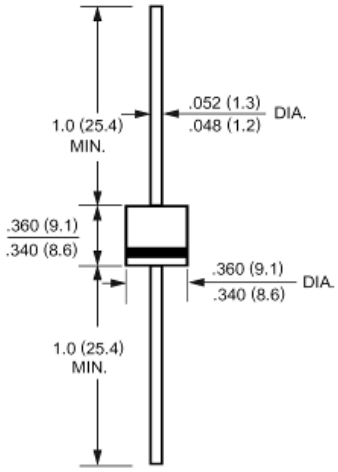
REVERSE VOLTAGE: **50 to 1000 VOLTS**

FORWARD CURRENT: **8.0 AMPERE**

FEATURES

· High surge current capability
· Plastic package has Underwriters Laboratory Flammability Classification 94V-O ctilizing Flame Retardant Epoxy Molding Compound.
· Void-free Plastic in a R-6 package.
· High current operation 6.0 ampere at T_A=60℃
· Exceeds environmental standards of MIL-S-19500/228

R-6



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, R-6
Epoxy: UL 94V-O rate flame retardant
Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
Polarity: Color band denotes cathode end
Mounting position: Any
Weight: 0.07ounce, 2.1gram

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60H_Z, resistive or inductive load.
For capacitive load, derate current by 20%.

	Symbols	*8A05*	*8A1*	*8A2*	*8A4*	*8A6*	*8A8*	*8A10*	Units
Maximum Recurrent 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 .375"(9.5mm) Lead Length at T_A=60℃	$I_{(AV)}$	8.0							**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	400							**Amp**
Maximum Forward Voltage at 6.0A DC and 25℃	V_F	1.1							**Volts**
Maximum Reverse Current at T_A=25℃	I_R	10.0							**uAmp**
at Rated DC Blocking Voltage T_A=100℃		100							
Typical Junction Capacitance (Note 1)	C_J	120							**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	10							**℃/W**
Operating Junction Temperature Range	T_J	-55 to +150							**℃**
Storage Temperature Range	Tstg	-55 to +150							**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted with 1.1x1.1" (30x30mm)copper pads.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1 – FORWARD DERATING CURVE

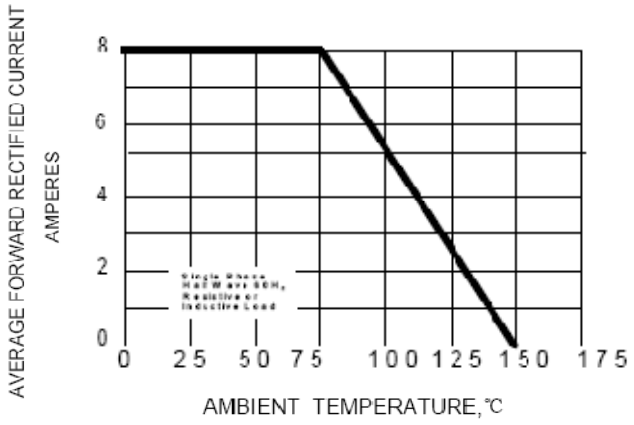

FIG.2 – TYPICAL FORWARD CHARACTERISTICS

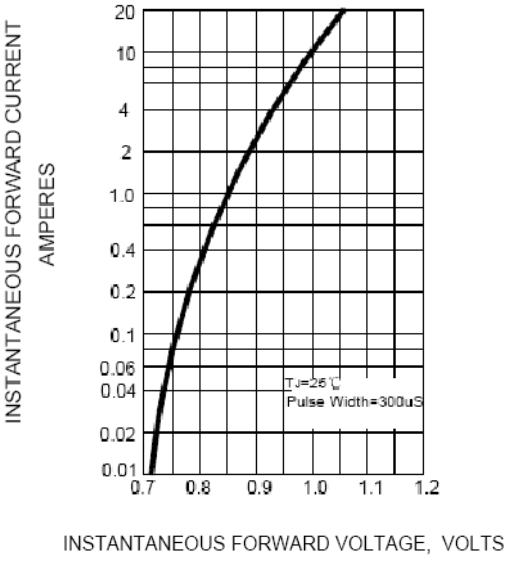

FIG.3 –MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

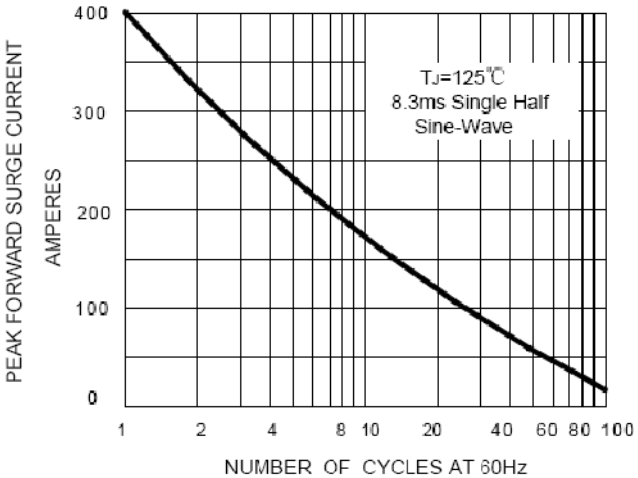

FIG.4 – TYPICAL JUNCTION CAPACITANCE