1A7 1.0AMP . SILICON RECTIFIERS

FEATURE

- . High current capability,
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed

 260°C /1 0sec/0.375" lead length at 5 lbs tension

Φ0.6mm leads

MECHANICAL DATA

. Terminal: Plated axial leads solderable per

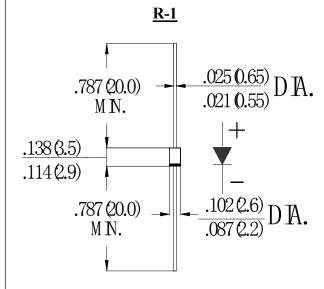
MIL-STD 202E, method 208C

. Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

. Polarity: color band denotes cathode

. Mounting position: any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

Type Number	SYM	1A7	units
	BOL	OL	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC blocking Voltage	V _{DC}	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length @Ta = 50°C	I _{F(AV)}	1.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0	A
Maximum Forward Voltage at 1.0A DC	V_F	1.0	V
Maximum Forward Voltage at 3.0A DC	V_F	1.3	V
Maximum DC Reverse Current Ta =25°C	I_R	5.0	
at rated DC blocking voltage Ta=100°C		50.0	μΑ
Typical Junction Capacitance (Note 1)	C_J	15	pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	50	°C/W
Storage Temperature	TSTG	-55 to +150	°C
Operation Junction Temperature	T_J	-55 to +125	°C

Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient

RATING AND CHARACTERISTIC CURVES (1A7)



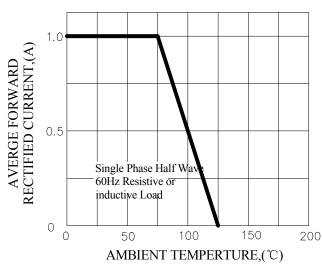


FIG.2-TYPICAL INSTANTANEOUS FORWARD **CHARACTERISTICS**

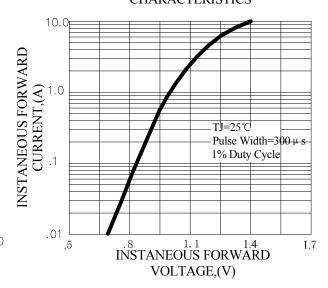
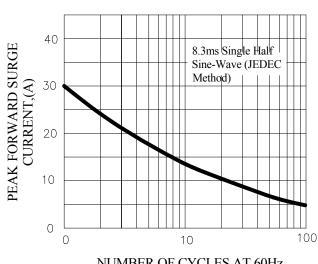
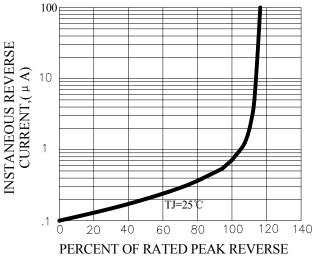


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

FIG.4-TYPICAL REVERSE **CHARACTERISTICS**



VOLTAGE,(%)