1S1888

GENERAL PURPOSE PLASTIC RECTIFIER

VOLTAGE: 800V **CURRENT: 1.0A**

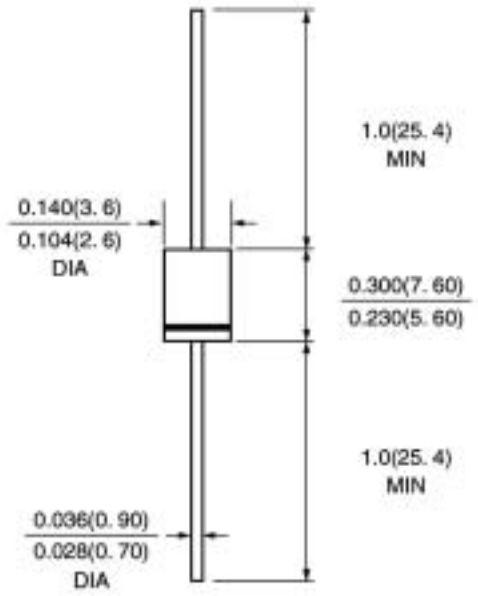
FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
High surge capability
High temperature soldering guaranteed
250°C/10sec/0.375”lead length at 5 lbs tension

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

DO-15\DO-201AC



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, for capacitive load, derate current by 20%)

	SYMBOL	1S1888	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	800	V
Maximum RMS Voltage	Vrms	560	V
Maximum DC blocking Voltage	Vdc	800	V
Maximum Average Forward Rectified Current 3/8”lead length at Ta =75°C	If(av)	1.0	A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	66.0 (60Hz)	A
Maximum Instantaneous Forward Voltage at rated forward current@1.5A	Vf	1.2	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	Ir	10.0 100.0	μA μA
Typical Junction Capacitance (Note 1)	Cj	20.0	pF
Typical Thermal Resistance (Note 2)	R(ja)	100.0	°C/W
Storage and Operation Junction Temperature	Tstg TJ	-50 to +150	°C

Note:
1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375”lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES 1S1888

[1]

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

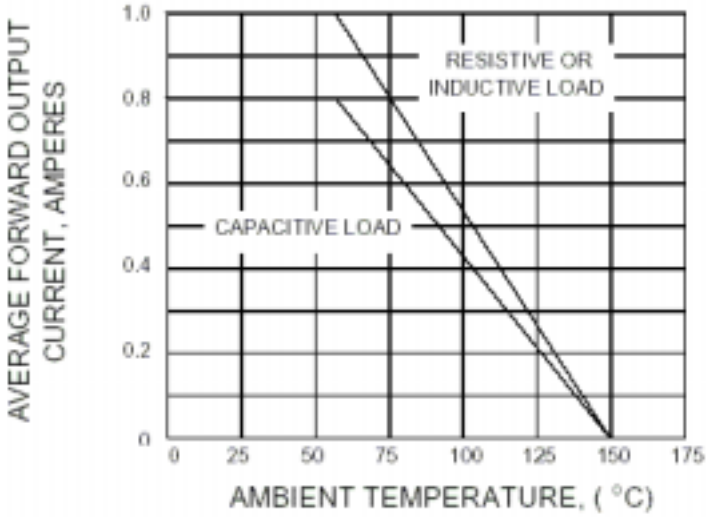


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

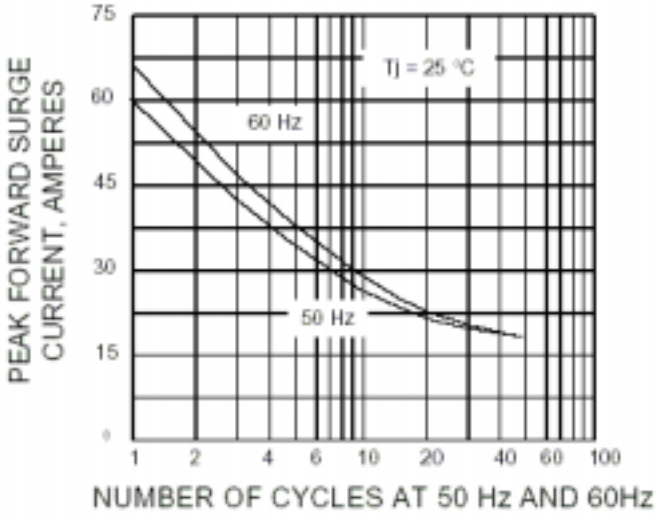


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

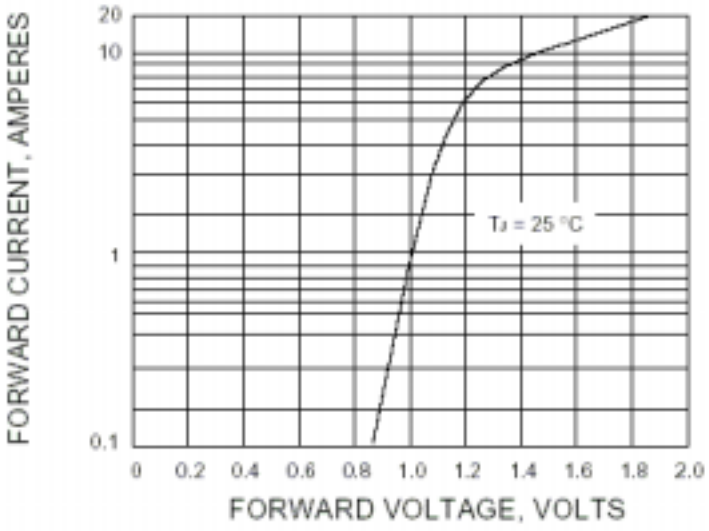
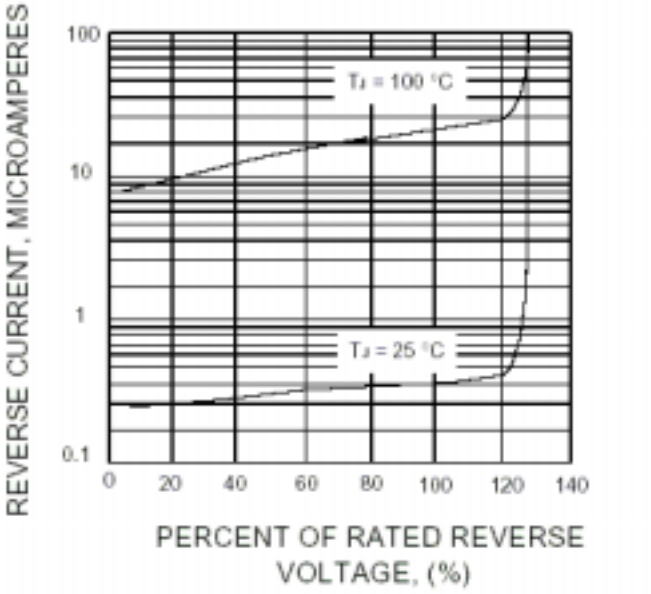


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



[1] Rev.A1, 1-Aug-05