

HIGH VOLTAGE RECTIFIER

VOLTAGE RANGE: 2500 --- 5000 V
CURRENT: 0.2 A

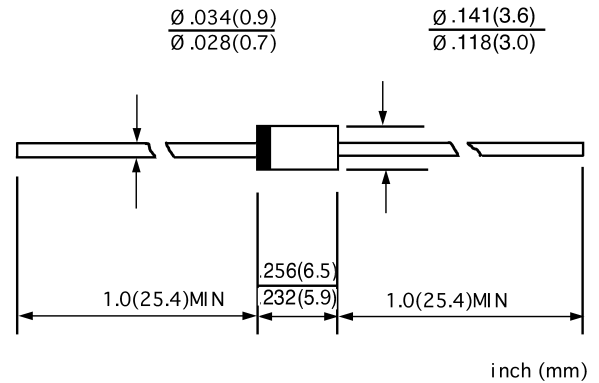
FEATURES

- ◇ Low cost
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with alcohol, Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- ◇ Case: JEDEC DO--15, molded plastic
- ◇ Terminals: Axial lead, solderable per MIL-STD-202, Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.014 ounces, 0.39 grams
- ◇ Mounting position: Any

DO - 15



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

		R2500F	R3000F	R4000F	R5000F	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	2500	3000	4000	5000	V
Maximum RMS voltage	V _{RMS}	1750	2100	2800	3500	V
Maximum DC blocking voltage	V _{DC}	2500	3000	4000	5000	V
Maximum average forw ard rectified current 9.5mm lead length, @T _A =75℃	I _{F(AV)}	0.2				A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load @T _J =125℃	I _{FSM}	30.0				A
Maximum instantaneous forw ard voltage @ 0.2A	V _F	4.0	5.0	6.5		V
Maximum reverse current @T _A =25℃ at rated DC blocking voltage @T _A =100℃	I _R	5.0 100.0				μ A
Maximum reverse recovery time (Note1)	t _{rr}	500				ns
Typical junction capacitance (Note2)	C _J	15				pF
Operating junction temperature range	T _J	- 55 ---- + 150				℃
Storage temperature range	T _{STG}	- 55 ---- + 150				℃

NOTE: 1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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FIG.1 -- FORWARD DERATING CURVE

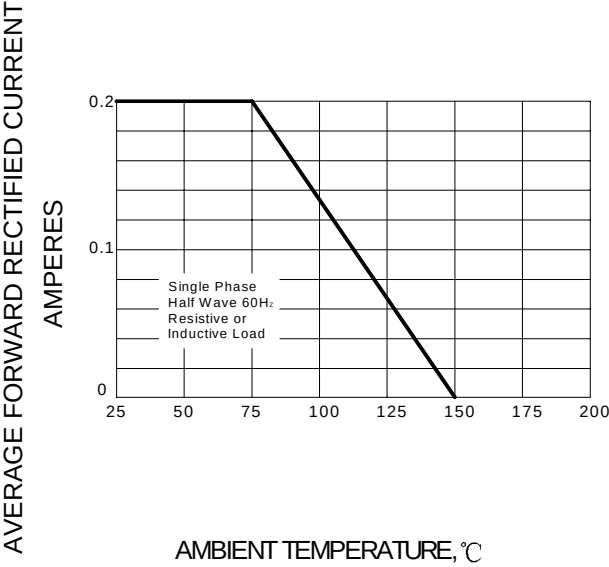


FIG.2 -- PEAK FORWARD SURGE CURRENT

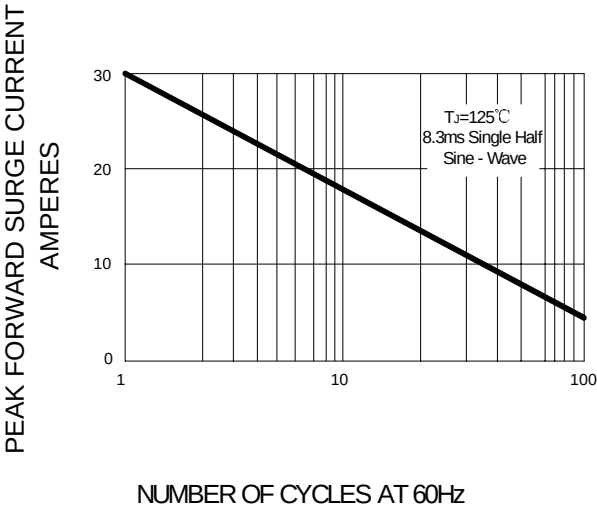


FIG.3 -- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

