HIGH VOLTAGE RECTIFIERS

VOLTAGE RANGE: 1200 --- 1600 V
CURRENT: 3.0 A

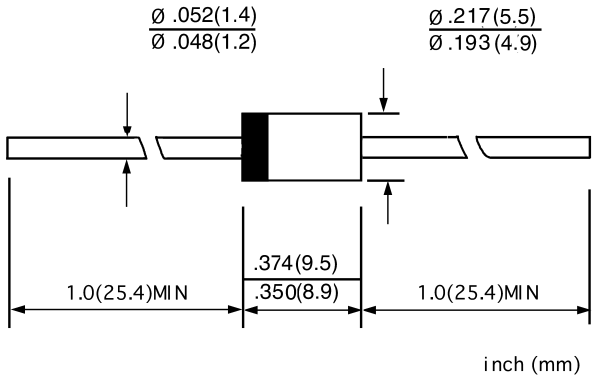
FEATURES

- ◇Low cost
- ◇Diffused junction
- ◇Low leakage
- ◇Low forward voltage drop
- ◇ High current capability
- ◇Easily cleaned with alcohol,Isopropanol and similar solvents

MECHANICAL DATA

- ◇Case: JEDEC DO--27,molded plastic
- ◇Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- ◇Polarity: Color band denotes cathode
- ◇Weight: 0.041ounces, 1.15 grams
- ◇Mounting position: Any

DO - 27



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,50Hz,resistive or inductive load. For capacitive load,derate by 20%.

		3R12	3R14	3R16	3R18	3R20	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	1200	1400	1600	1800	2000	V
Maximum RMS voltage	V_{RMS}	840	980	1120	1260	1400	V
Maximum DC blocking voltage	V_{DC}	1200	1400	1600	1800	2000	V
Maximum average forward rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	3.0					A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load T_J=125℃	I_{FSM}	150.0					A
Maximum instantaneous forward voltage @ 3.0A	V_F	1.8					V
Maximum reverse current @T_A=25℃	I_R	10.0					μA
at rated DC blocking voltage @T_A=100℃		100.0					
Operating junction temperature range	T_J	-55 ---- + 150					℃
Storage temperature range	T_{STG}	-55 ---- + 150					℃

FIG.1 – FORWARD DERATING CURVE

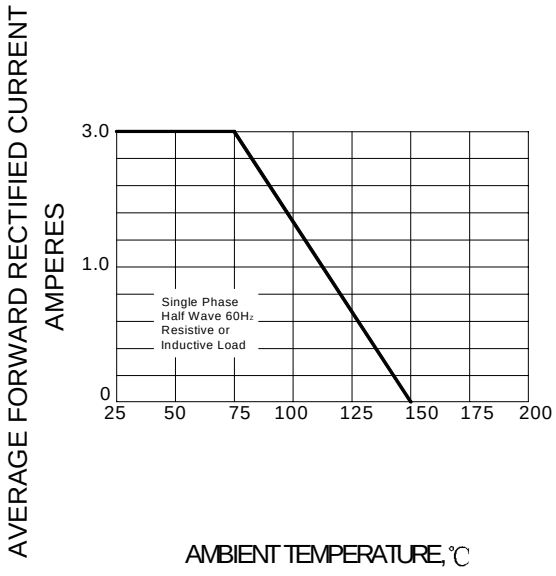


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

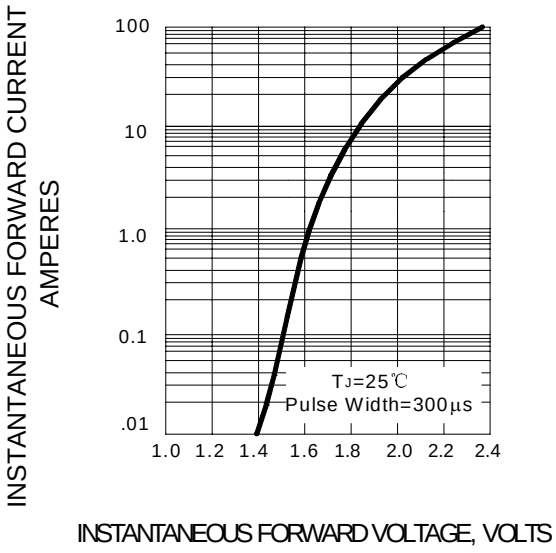


FIG.3 – PEAK FORWARD SURGE CURRENT

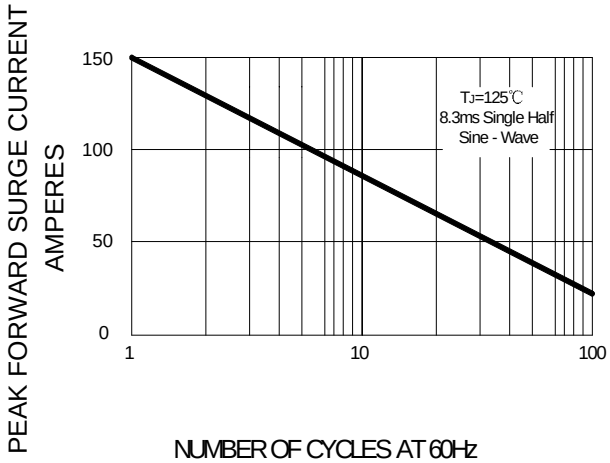


FIG.4 – TYPICAL JUNCTION CAPACITANCE

