

VOLTAGE RANGE: 2500 --- 6000 V

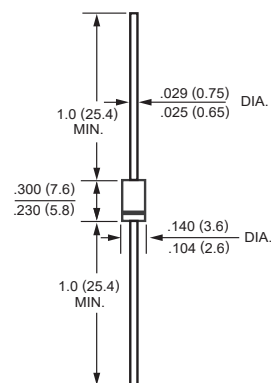
CURRENT: 0.2 A



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

DO-15



Dimensions in inches and (millimeters)

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

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%.

		R2500	R3000	R4000	R5000	R6000	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	2500	3000	4000	5000	6000	V
Maximum RMS voltage	V _{RMS}	1750	2100	2800	3500	4200	V
Maximum DC blocking voltage	V _{DC}	2500	3000	4000	5000	6000	V
Maximum average forw ard rectified current 9.5mm lead length, @T _A =75°C	I _{F(AV)}	0.2					A
Peak forw ard surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125°C	I _{FSM}	30.0					A
Maximum instantaneous forw ard voltage @ 0.2A	V _F	3.0	4.0	5.0			V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	5.0 50.0					μ A
Typical junction capacitance (Note1)	C _J	30					pF
Typical thermal resistance (Note2)	R _{θJA}	35					°C /W
Operating junction temperature range	T _J	- 55 ---- + 150					°C
Storage temperature range	T _{STG}	- 55 ---- + 150					°C

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 – FORWARD DERATING CURVE

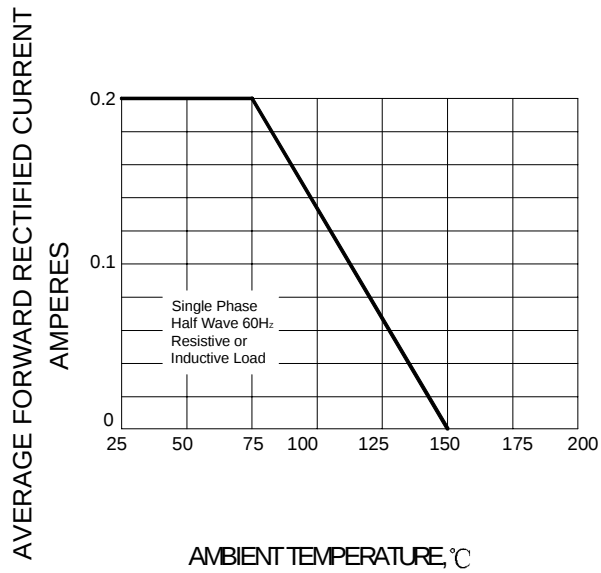


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

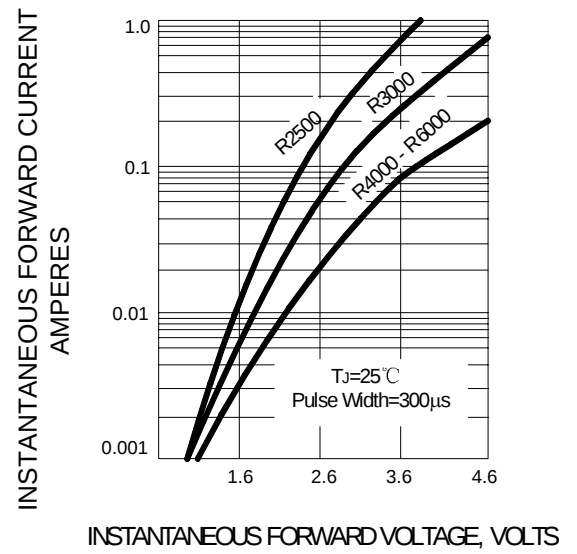


FIG.3 – PEAK FORWARD SURGE CURRENT

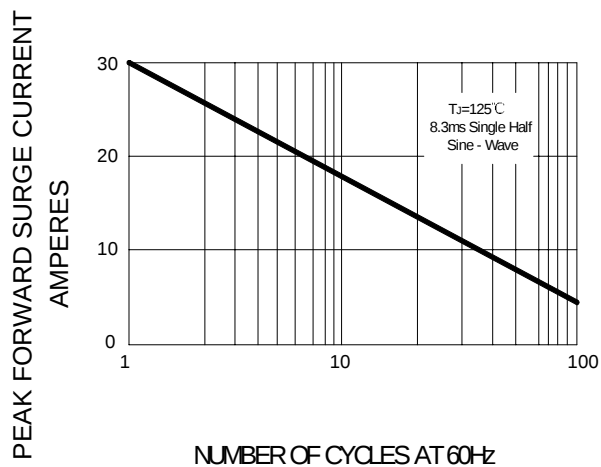


FIG.4 – TYPICAL JUNCTION CAPACITANCE

