

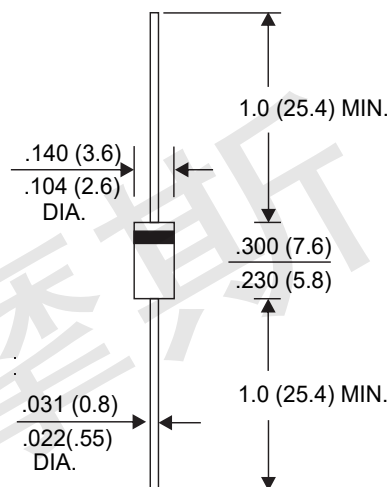
Features

- 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(DO-204AC)



Dimensions in inches and (millimeters)

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%.

Parameter		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, @ $T_A=75^{\circ}C$	$I_{F(AV)}$	0.2					A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load @ $T_J=125^{\circ}C$	I_{FSM}	30.0					A
Maximum instantaneous forw ard voltage @ 0.2A	V_F	3.0	4.0	5.0			V
Maximum reverse current @ $T_A=25^{\circ}C$ at rated DC blocking voltage @ $T_A=100^{\circ}C$	I_R	5.0 50.0					μA
Typical junction capacitance (Note1)	C_J	30					pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	35					$^{\circ}C/W$
Operating junction temperature range	T_J	- 55 ---- + 150					$^{\circ}C$
Storage temperature range	T_{STG}	- 55 ---- + 150					$^{\circ}C$

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

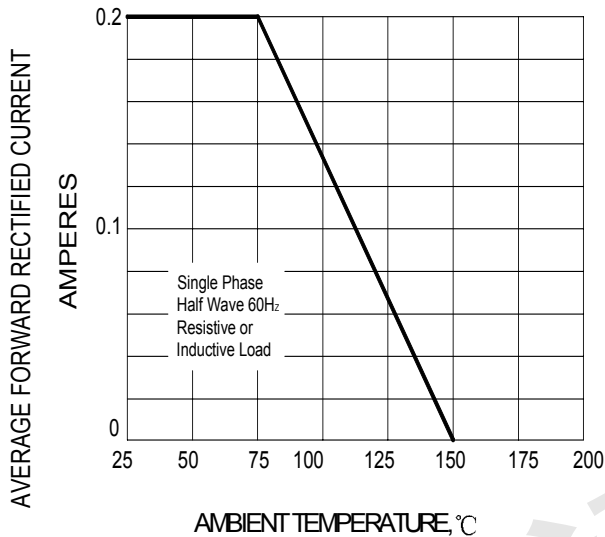


FIG.2 -- TYPICAL FORWARD CHARACTERISTICS

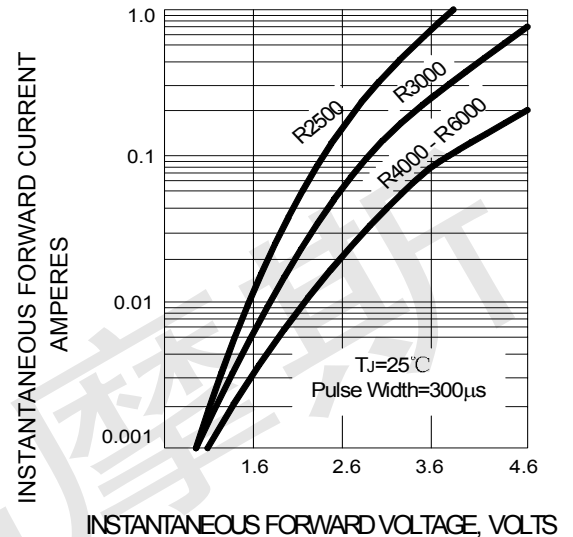


FIG.3 -- PEAK FORWARD SURGE CURRENT

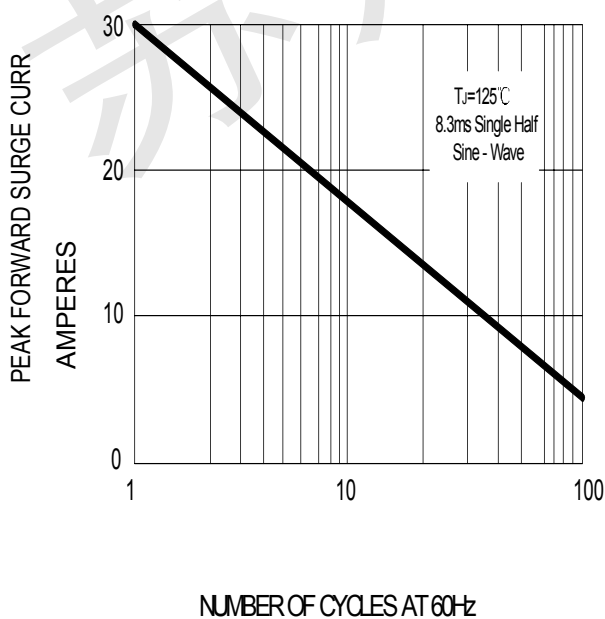


FIG.4 -- TYPICAL JUNCTION CAPACITANCE

