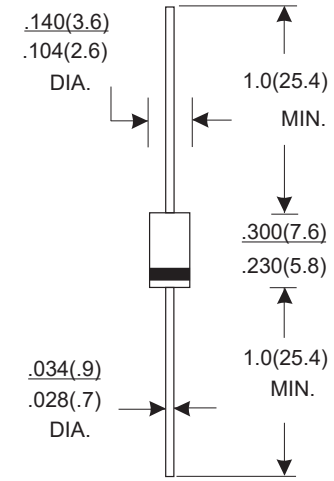
DO-15 PLASTIC SILICON RECTIFIERS

FEATURES

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability
- High voltage

MECHANICAL DATA

- Case: DO-15 molded plastic body
- Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Paramenter		Symbol	R4000	R5000	Units
Maximum recurrent peak reverse voltage		V_{RRM}	4000	5000	V
Maximum RMS voltage		V_{RMS}	2800	3500	V
Maximum DC blocking voltage		V_{DC}	4000	5000	V
Maximum Average Forward rectified Current at T_A=50°C		$I_{F(AV)}$	0.2		A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	30.0		A
Maximum Instantaneous Forward Voltage at 0.2A DC		V_F	5.0		V
Maximum reverse current at rated DC blocking voltage	@T_A=25℃	I_R	5.0		μA
	@T_A=100℃		100.0		
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T_L=75°C			30		
Typical Junction Capacitance (Note1)		C_J	30		pF
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	40		
Storage Temperature		T_{STG}	- 55 +150		℃
Operation Junction Temperature		T_j	- 55 +125		℃

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient.375"(9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

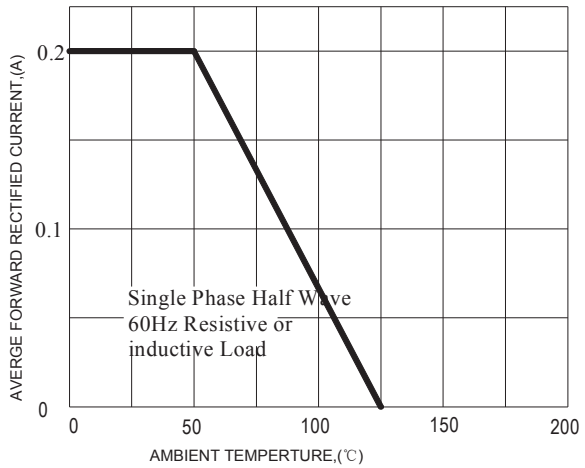


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

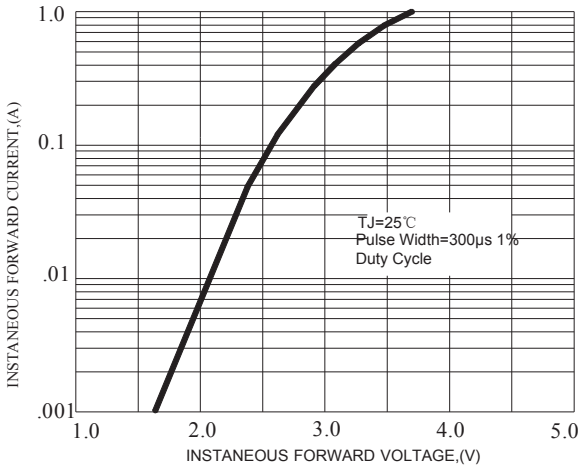


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

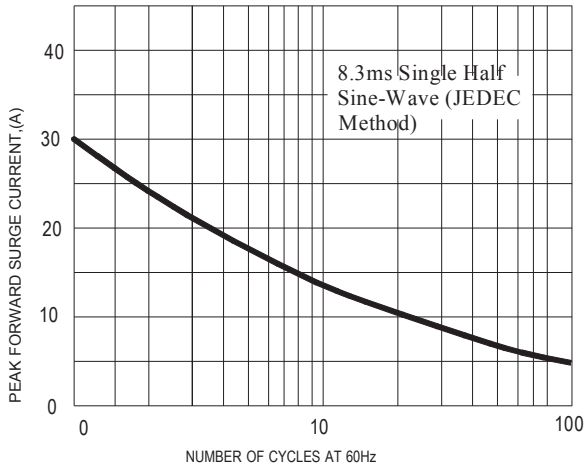


FIG.4-TYPICAL REVERSE CHARACTERISTICS