

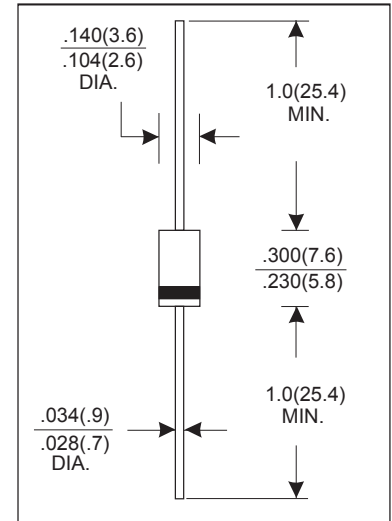
DO-15 HIGH VOLTAGE RECTIFIERS

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



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted) Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate by 20%.

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		$I_{\text{F(AV)}}$	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 °C	I_{R}	5.0		μ A
	@T _A =100 °C		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)		$R_{\theta \text{ JA}}$	40		
Storage Temperature		T_{STG}	- 55 +150		°C
Operation Junction Temperature		T_{j}	- 55 +125		°C

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

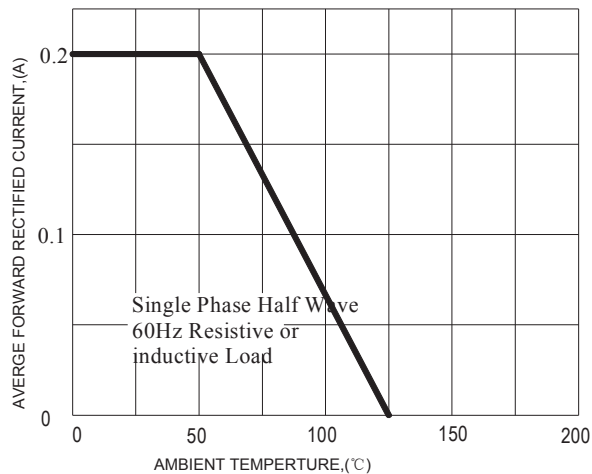


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

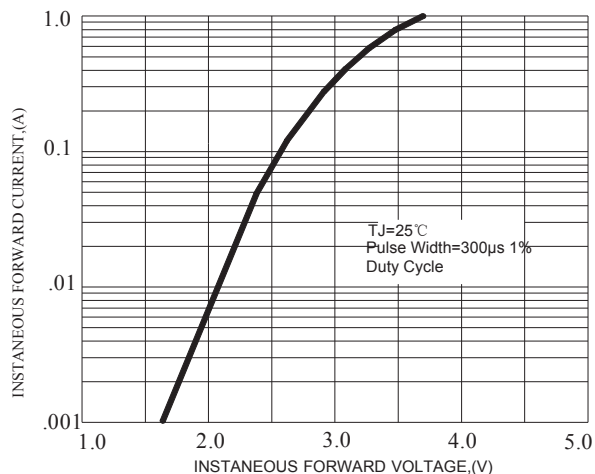


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

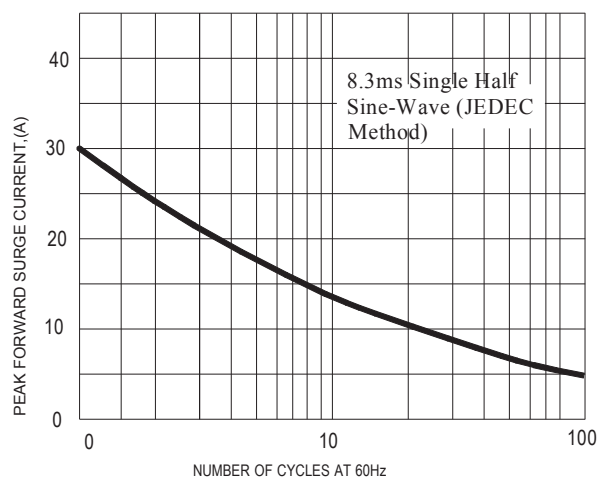


FIG.4-TYPICAL REVERSE CHARACTERISTICS

