

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- Ultrafast recovery time for high efficiency
- High temperature soldering guaranteed: 260°C/10seconds, 9.5mm lead length
- Lead and body according with RoHS standard

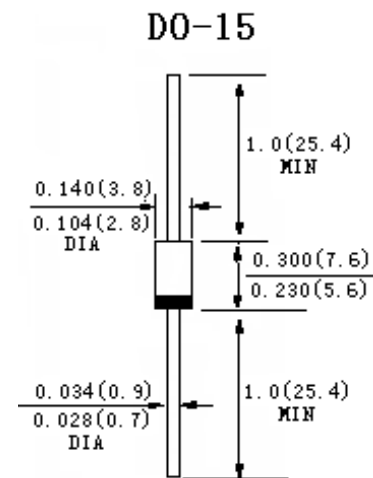
Mechanical Data

Case: DO-15 Molded plastic

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60 Hz, resistive or inductive load

For capacitive load, derate current by 20%

TYPE NUMBER	Symbol	ER201	ER202	ER203	ER204	ER206	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	100	200	300	400	600	V
Maximum RMS voltage	V_{RMS}	70	140	210	280	420	V
Maximum DC blocking voltage	V_{DC}	100	200	300	400	600	V
Maximum average forward rectified current 9.5mm lead length at $T_A=55^\circ\text{C}$	$I_{F(AV)}$	2.0					A
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load (JEDEC method)	I_{FSM}	50					A
Maximum instantaneous forward voltage at 2.0A	V_F	0.95	1.25		1.7	V	
Maximum reverse recovery time (Note: 1)	T_{rr}	35					nS
Maximum DC reverse current at rated DC blocking voltage	$T_a=25^\circ\text{C}$	I_{R1}	5.0				μA
	$T_a=100^\circ\text{C}$	I_{R2}	200				μA
Operating junction temperature range	T_J	-55to+150					$^\circ\text{C}$
Storage temperature range	T_{stg}	-55to+150					$^\circ\text{C}$

Note: 1. Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $IRR=0.25\text{A}$.

Characteristic Curves

Fig. 1 – Forward Current Derating Curve

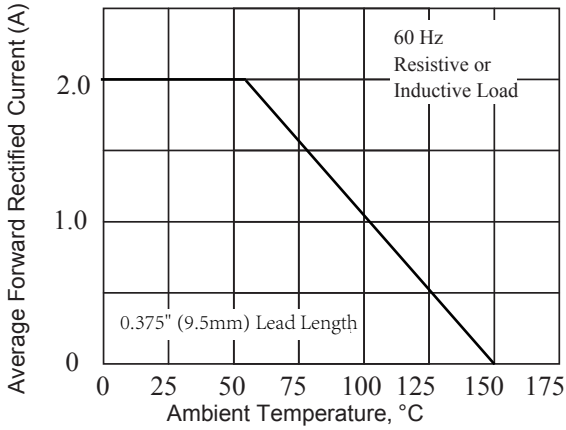


Fig. 2 – Maximum Non-repetitive Peak Forward Surge Current

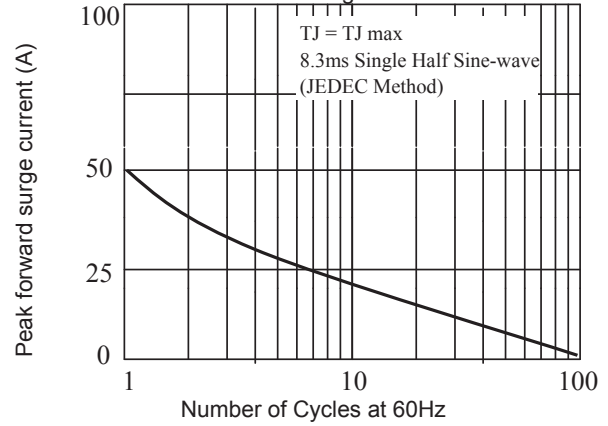


Fig 3. – Typical Instantaneous Forward Characteristics

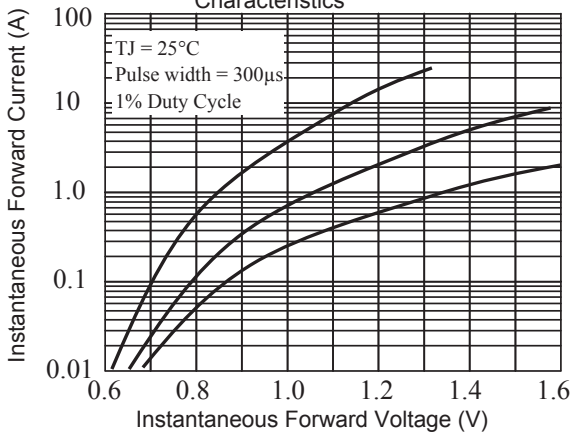


Fig 4. – Typical Reverse Characteristics

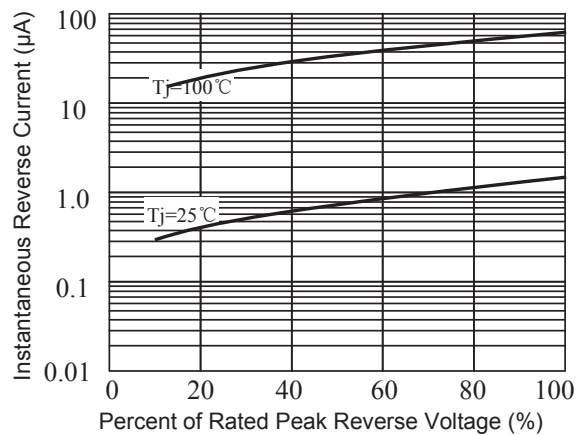


Fig 5. –typical Junction Capacitance

