

Features

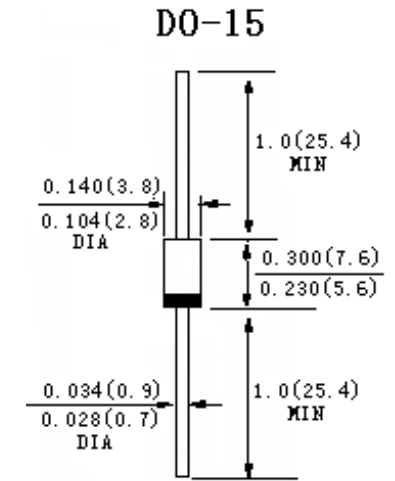
- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:260°C/10seconds,
9.5mm lead length
- Lead and body according with RoHS standard

Mechanical Data

Case: DO-15 Molded plastic

Epoxy: UL 94V-0 rate flame retardant

Lead: Pure tin plated, lead free



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	Symbols	RL 201	RL 202	RL 203	RL 204	RL 205	RL 206	RL 207	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	v
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	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}	60.0							A
Maximum instantaneous forward voltage at 2.0A	V_F	1.0							V
Maximum instantaneous reverse current at rated DC blocking voltage	$T_a=25^\circ\text{C}$	I_{R1}							μA
	$T_a=100^\circ\text{C}$	I_{R2}							μA
Operating junction temperature range	T_J	-55to+150							$^\circ\text{C}$
Storage temperature range	T_{stg}	-55to+150							$^\circ\text{C}$

Characteristic Curves

Fig. 1 - Forward Current Derating Curve

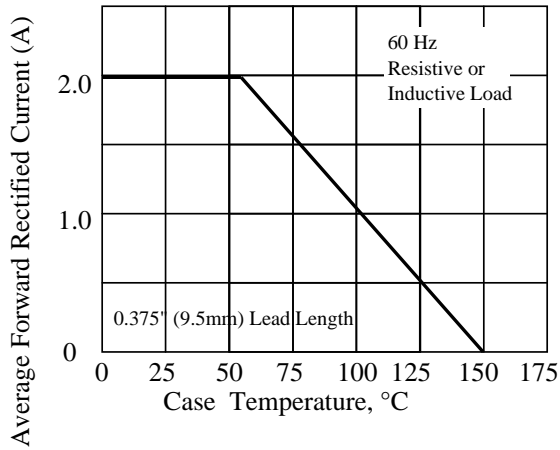


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

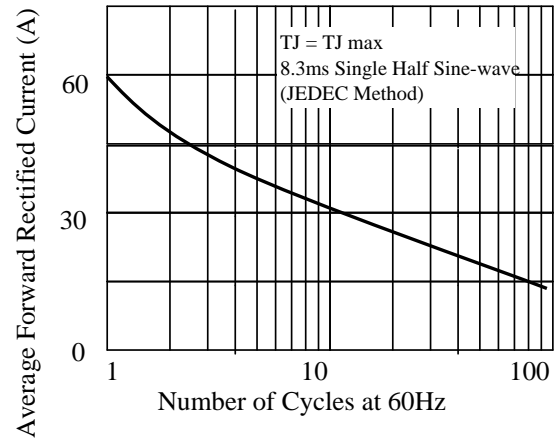


Fig 3. - Typical Instantaneous Forward Characteristics

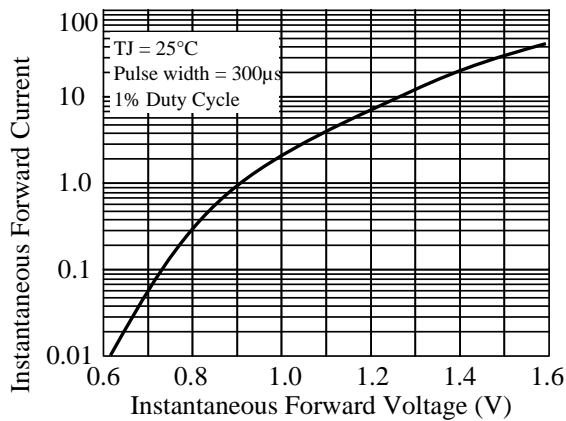


Fig 4. - Typical Reverse Characteristics

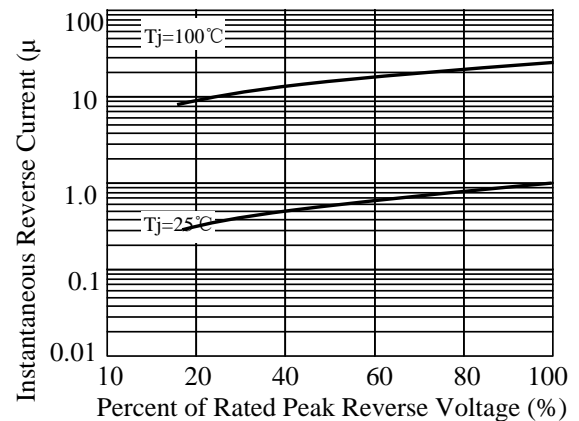


Fig 5. - Typical Junction Capacitance

