

Features

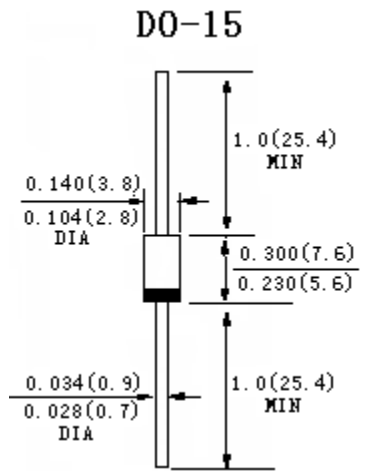
- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed: 260°C/10seconds, 9.5mm lead length
- Lead and body according with RoHS standard

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	1N 5391	1N 5392	1N 5393	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399	Units	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	500	600	800	1000	V	
Maximum RMS voltage	V_{RMS}	35	70	140	280	350	420	560	700	V	
Maximum DC blocking voltage	V_{DC}	50	100	200	400	500	600	800	1000	V	
Maximum average forward rectified current 9.5mm lead length @ TA=55°C	$I_{F(AV)}$	1.5								A	
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load (JEDEC method)	I_{FSM}	50.								A	
Maximum instantaneous forward voltage @ 1.5A	V_F	1.0								V	
Maximum instantaneous reverse current at rated DC blocking voltage	Ta=25°C	I_{R1}								5.0	μA
	Ta=100°C	I_{R2}								50.0	μA
Operating junction temperature range	T_J	-55to+150								°C	
Storage temperature range	T_{stg}	-55to+150								°C	

Characteristic Curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

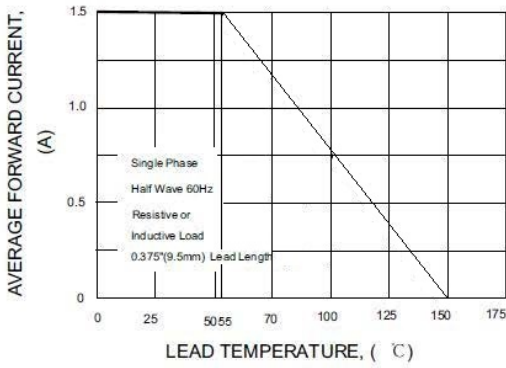


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

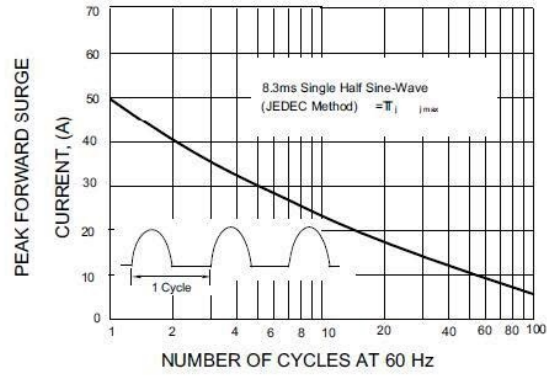


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

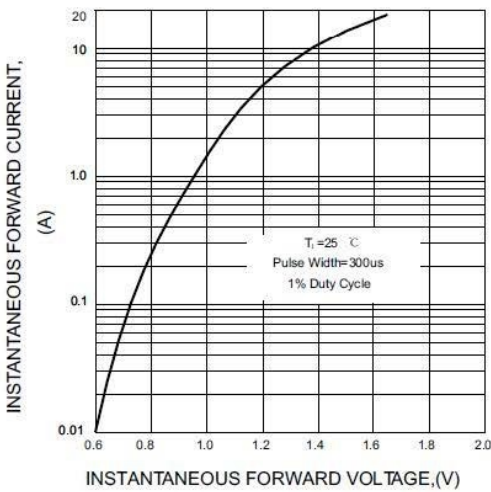


FIG.4-TYPICAL REVERSE CHARACTERISTICS

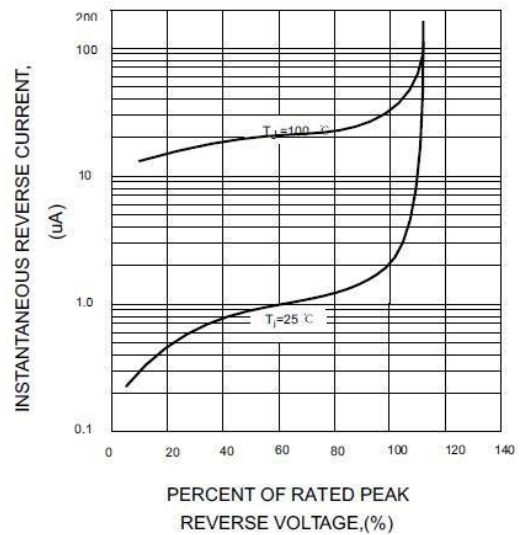


FIG.5-TYPICAL JUNCTION CAPACITANCE

