

Glass Passivated Standard Rectifiers

Reverse Voltage - 50V TO 1000V

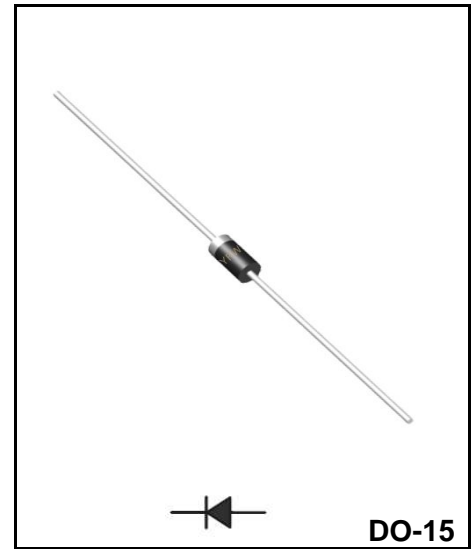
Forward Current - 3 A

FEATURES

- ◆The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆Glass passivated junction chip
- ◆Low reverse leakage
- ◆High forward surge current capability
- ◆High temperature soldering guaranteed 260°C/10 seconds at terminals

MECHANICAL DATA

- ◆Case : Molded plastic body
- ◆Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- ◆Polarity : Polarity symbol marking on body
- ◆Mounting Position : Any
- ◆Weight : 0.0116 ounce, 0.33 grams



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	RL301G	RL302G	RL303G	RL304G	RL305G	RL306G	RL307G	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 at I=100°C	I _(AV)	3							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	120.0							A
Maximum instantaneous forward voltage at 2.5A	V _F	1.1							v
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	2.0 200							uA
Typical junction capacitance (Note1)	C _J	58.0							pF
Typical thermal resistance	R _{qJA}	75.0							°C/W
operating junction and storage temperature range	T _J , T _{STG}	55 to +150							°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

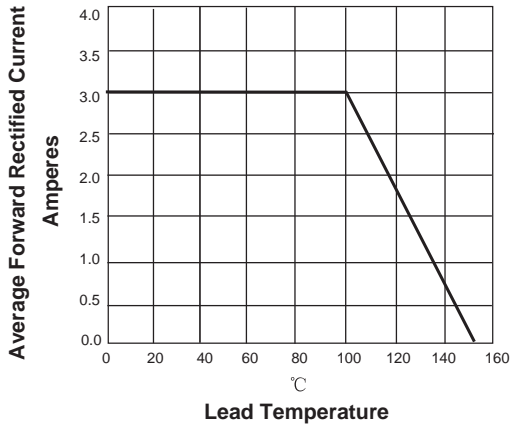


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

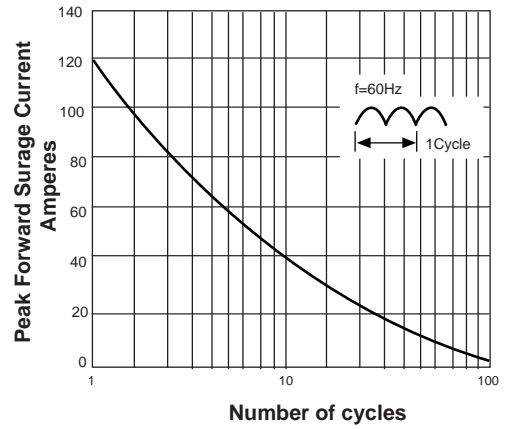


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

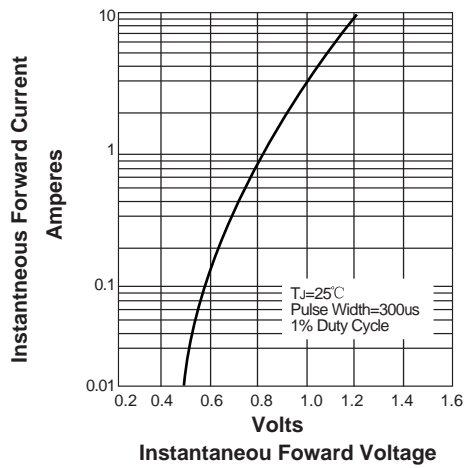
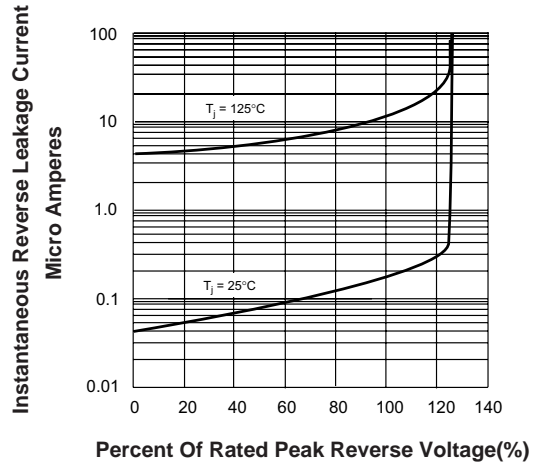


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Ordering information

Package	Packing Description	Packing Quantity
DO-15	bulk	500PCS/Inner Box 30000PCS/Carton
	ammo pack	3000PCS/Inner Box 30000PCS/Carton

Package Dimensions

DO-15

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	5.80	7.60	0.230	0.300
B	2.60	3.60	0.104	0.140
C	0.71	0.86	0.028	0.034
D	25.4	-	1.00	-

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