Standard Silicon Rectifiers

Reverse Voltage - 100 to 1000 V
Forward Current - 1.5A

FEATURES

- For surface mounted applications
- Low profile package
- Open Junction chip
- High forward surge current capability
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: DO-15
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.33g / 0.0116oz

Maximum Ratings and Electrical characteristics

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

Parameter	Symbols	RL152	RL153	RL154	RL155	RL156	RL157	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T_c = 100 °C	$I_{F(AV)}$	1.5						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	40.0						A
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.1						V
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a=125 °C	I_R	5 50						μA
Typical Thermal Resistance [2]	$R_{\theta JA}$	50						℃/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150						℃

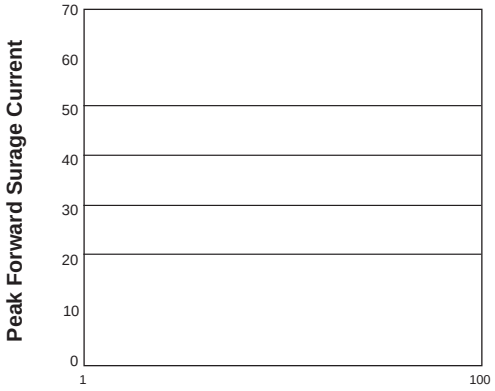
1 **Measured at 1 MHz and applied reverse voltage of 4 V D.C**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT



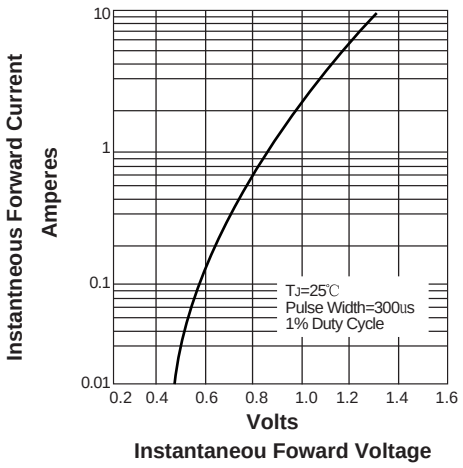
Lead Temperature

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



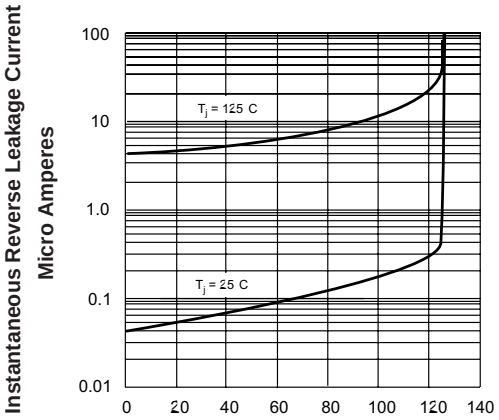
Number of cycles

FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS



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FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage(%)

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			

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