

MECHANICAL and PACKAGING

CASE: Aluminum.

• TERMINALS: Tin/lead (Sn/Pb) or RoHS compliant matte tin.

MARKING: Alternating current input: AC

Cathode positive output: +

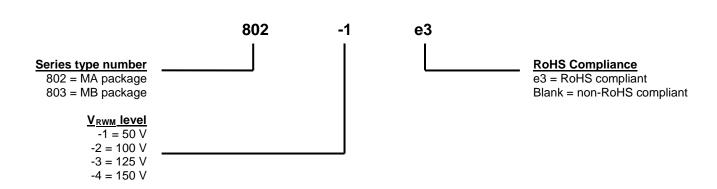
Anode negative: -

Part number is printed on the body

WEIGHT: Approximately 20 grams for 802 series and 10 grams for 803 series

See <u>Package Dimensions</u> on last page.

PART NOMENCLATURE



SYMBOLS & DEFINITIONS			
Symbol	Definition		
I _{FSM}	Surge Peak Forward Current: The forward current including all nonrepetitive transient currents but excluding all repetitive transients (ref JESD282-B)		
Io	Average Rectified Output Current: The Output Current averaged over a full cycle with a 50 Hz or 60 Hz sine-wave input and a 180 degree conduction angle.		
V_{FM}	Maximum Forward Voltage: The maximum forward voltage the device will exhibit at a specified current.		
I _{RM}	Maximum Reverse Current: The maximum reverse (leakage) current that will flow at the specified voltage and temperature.		
V_{RWM}	Working Peak Reverse Voltage: The peak voltage excluding all transient voltages (ref JESD282-B). Also sometimes known historically as PIV.		
t _{rr}	Reverse Recovery Time: The time interval between the instant the current passes through zero when changing from the forward direction to the reverse direction and a specified decay point after a peak reverse current occurs.		



ELECTRICAL CHARACTERISTICS

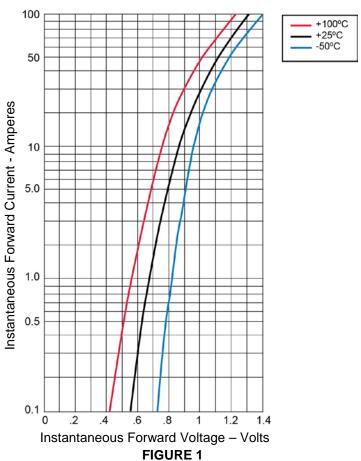
PART NUMBER	MAX FORWARD VOLTAGE PER LEG V _{FM} (Note 1)	MAX REVERSE PEAK CURRENT I _{RM} @ V _{RWM}		$\begin{tabular}{ll} MAX REVERSE \\ RECOVERY \\ TIME \\ t_{rr} \\ I_F = 0.5 \ A, \end{tabular}$
				$I_{RM} = 1.0 A,$ $I_{R(REC)} = 0.250$
	@ 25 ℃	@ 25 ℃	@ 100 ºC	Α
	Volts	μΑ	μΑ	ns
802	0.95 @ 10 A	20	1000	50
803	0.95 @ 6 A	10	300	50

NOTES: 1. Pulse test: Pulse width 300 μsec, duty cycle 2%.

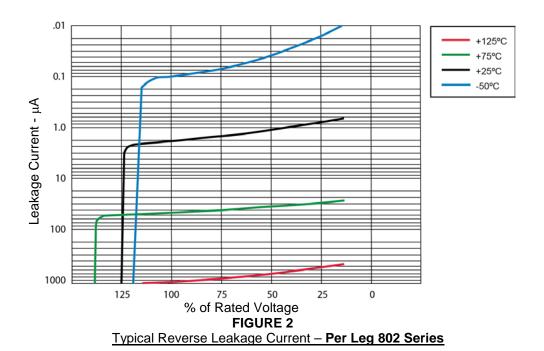
PART N	UMBER	WORKING PEAK REVERSE VOLTAGE V _{RWM}	MINIMUM BREAKDOWN VOLTAGE V _(BR)
		Volts	Volts
802-1	803-1	50	55.0
802-2	803-2	100	110.0
802-3	803-3	125	137.5
802-4	803-4	150	165.0



GRAPHS



Typical Forward Characteristics – Per Leg 802 Series

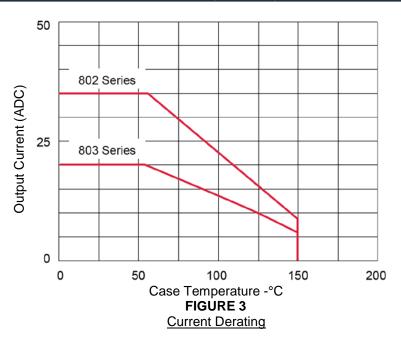


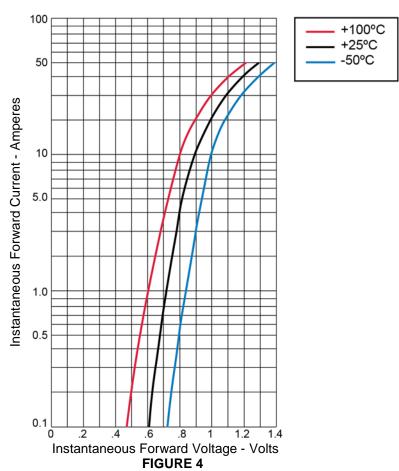
RF01100, Rev A, (12/19/13)

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GRAPHS (continued)





Typical Forward Characteristics - Per Leg 803 Series



GRAPHS (continued)

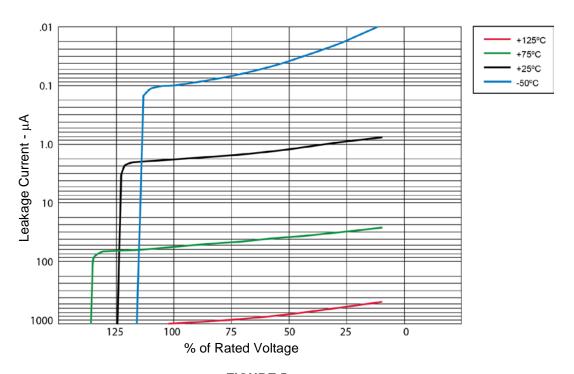
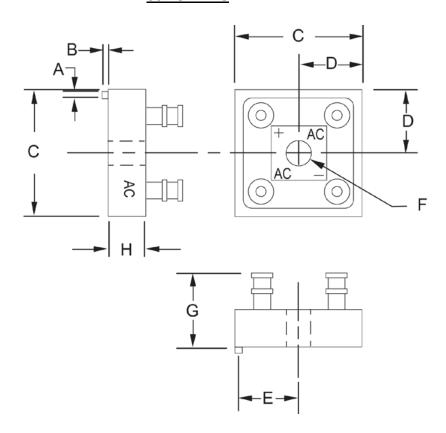


FIGURE 5 Typical Reverse Leakage Current - Per Leg 803 Series

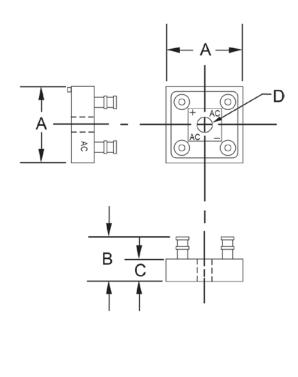


PACKAGE DIMENSIONS

802 SERIES



803 SERIES



	Dimensions				
Ltr	Inches		Millimeters		
	MIN	MAX	MIN	MAX	
Α	0.056	0.066	1.412	1.68	
В	0.052	0.072	1.32	1.83	
С	1.115	1.135	28.32	28.83	
D	0.552	0.572	14.02	14.53	
Е	0.490	0.510	12.45	12.95	
F	0.180	0.200	4.57	5.08	
G	-	0.750	-	19.05	
Н	0.302	0.322	7.67	8.18	

	Dimensions				
Ltr	Inch		Millimeters		
	MIN	MAX	MIN	MAX	
Α	0.735	0.755	18.67	19.18	
В	-	0.570	-	14.48	
С	0.230	0.250	5.74	6.25	
D	0.139	0.149	3.30	3.81	