

MBRA210L

PRV : 10 Volts
Io : 2.0 Ampere

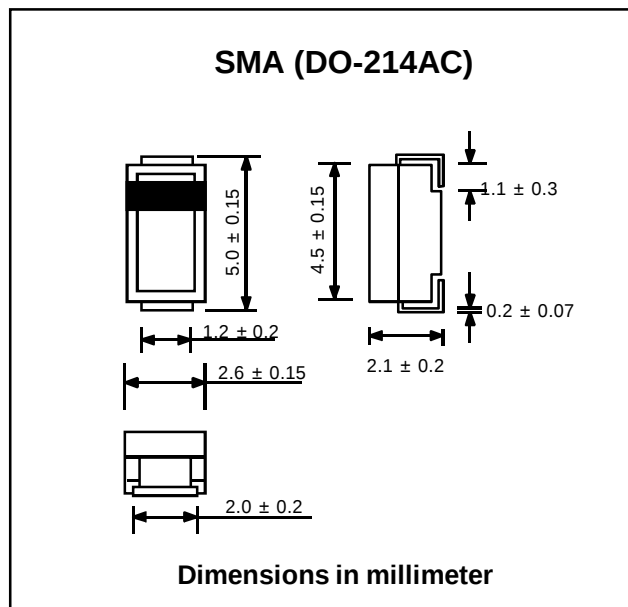
FEATURES :

- * Ultra Low V_F
- * Highly Stable Oxidation Passivated Junction
- * Guardring for Over-Voltage Protection
- * Optimized for Low Leakage Current
- * Lead Free / RoHS
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : SMA Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.067 gram
- * Marking : B2L1

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta=25°C)

RATING	SYMBOL	VALUE		UNIT
Maximum Peak Repetitive Reverse Voltage	VRRM	10		V
Maximum Working Peak Reversr Voltage	VRWM	10		V
Maximum DC Blocking Voltage	VDC	10		V
Maximum Average Forward Current @TL = 110 °C	IF(AV)	2.0		V
Maximum Non-Repetitive Peak Surge Current (Surge Applied at Rate Load Conditions Halfwave, Single Phase, 60 Hz)	IFSM	60		A
Maximum Instantaneous Forward Voltage (Note 1) (IF = 0.1 A) (IF = 1.0 A) (IF = 2.0 A)	VF	TJ = 25°C)	TJ = 100°C)	V
		0.260	0.150	
		0.325	0.230	
Maximum Instantaneous Reverse Current (VR = 5V) (VR = 10V)	IR	TJ = 25°C)	TJ = 100°C)	mA
		0.25	40	
		0.70	60	
Thermal Resistance Junction to Lead Junction to Ambient	RθJL RθJA	Min Pad	1 Inch Pad	°C/W
		22	15	
		150	84	
Operating Junction Temperature Range	TJ	- 65 to + 150		°C
Storage Temperature Range	TSTG	- 65 to + 150		°C

Note: (1) Pulse Test : Pulse Width ≤ 250 μs, Duty Cycle ≤ 2.0 %.

RATING AND CHARACTERISTIC CURVES (MBRA210L)

FIG.1 - CURRENT DERATING,
JUNCTION TO LEAD

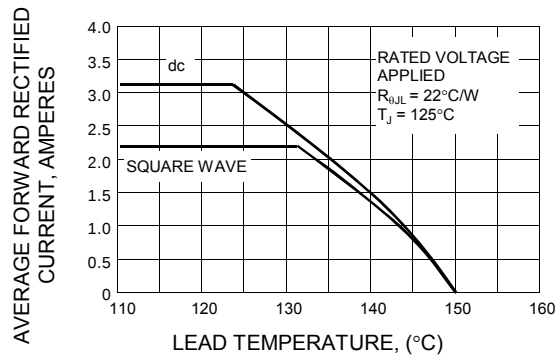


FIG.2 - TYPICAL JUNCTION CAPACITANCE

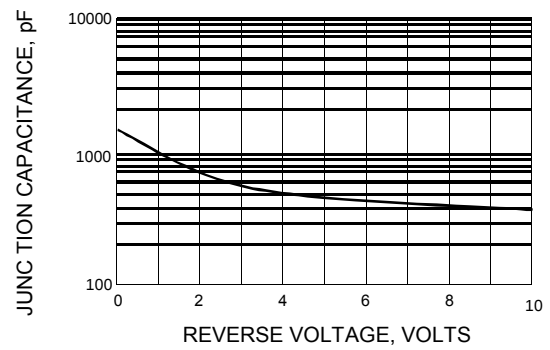


FIG.3 - MAXIMUM INSTANTANEOUS
FORWARD VOLTAGE

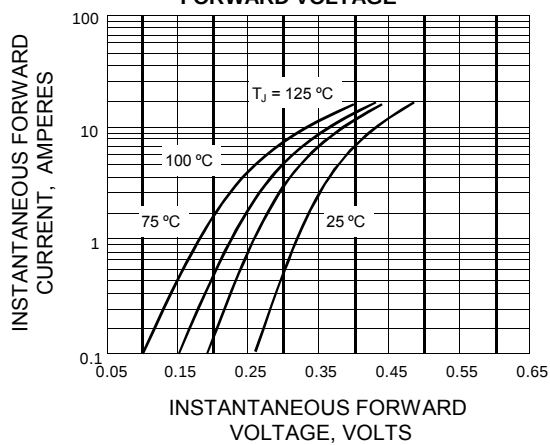


FIG. 4 - TYPICAL REVERSE CURRENT

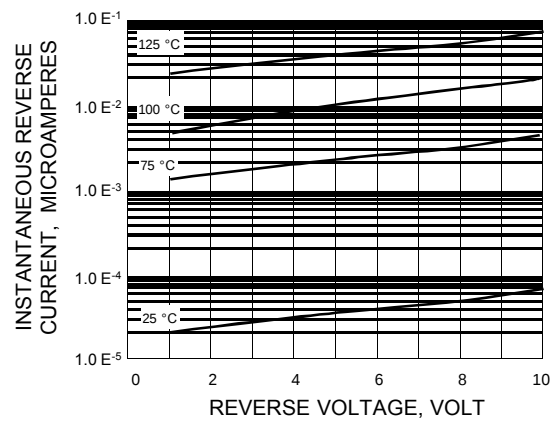


FIG. 5 - FORWARD POWER DISSIPATION

