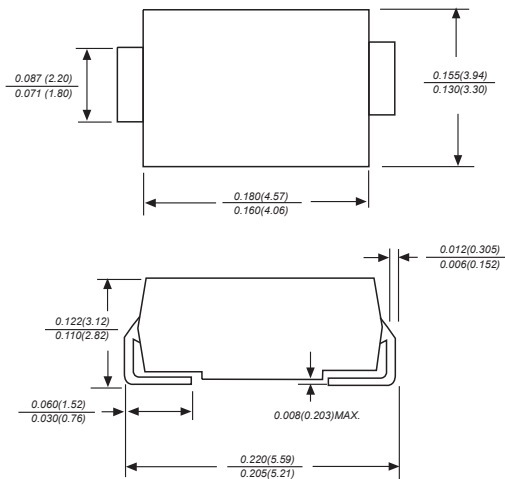


MB24 THRU MB220

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 40 to 200 Volts Forward Current - 2.0 Amperes

DO-214AA(SMB)



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounce, 0.092 gram

MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	MB24	MB24A	MB25	MB26	MB28	MB29	MB210	MB215	MB220	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	V	
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	63	70	105	140	V	
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V	
Maximum Average Forward Current (See Figure 1)	I _{F(AV)}	2.0									A	
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	50									A	
Maximum Forward Voltage at 2.0A (Note 1)	V _F	0.70		0.74		0.80			0.90		V	
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =100°C	I _R	0.05 20										mA
Typical Thermal Resistance (Note 2)	R _{θJL}	12										°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150		-55 to +175							°C	

RATING AND CHARACTERISTIC CURVES (MB24 THRU MB220)

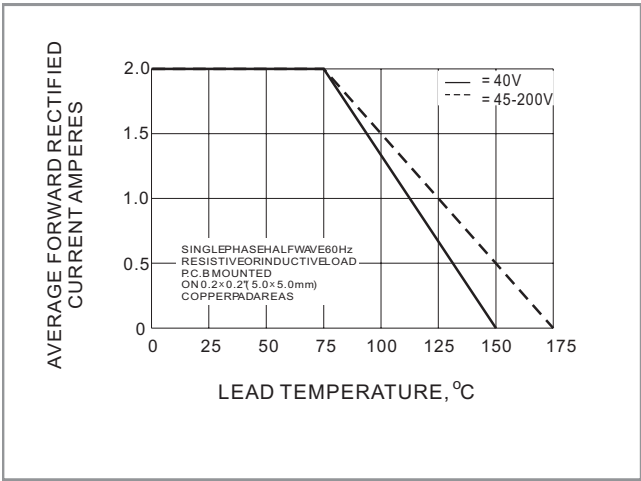


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

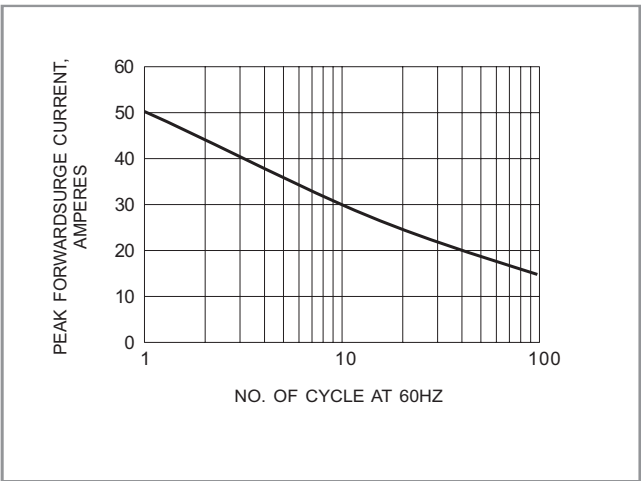


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARDSURGE CURRENT

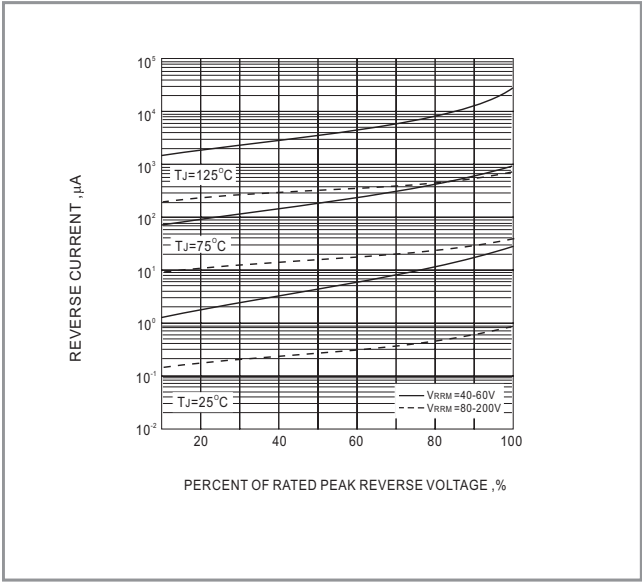


FIG.3-TYPICAL REVERSE CHARACTERISTIC

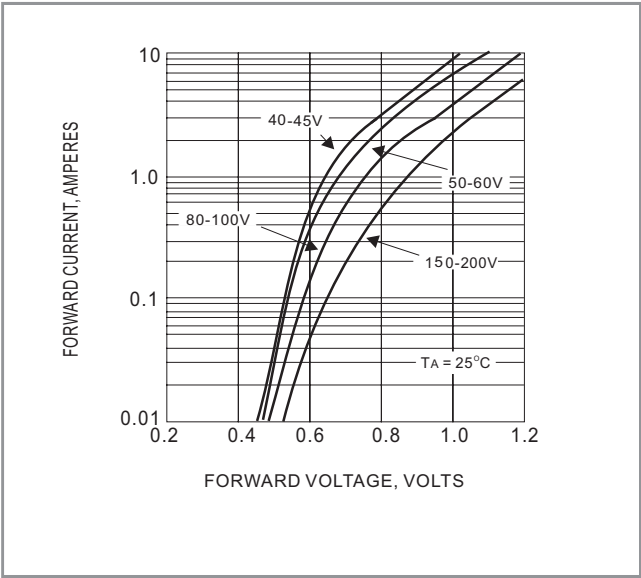


FIG.4-TIPICAL INSTANTANEOUS FORWARD CHARACTERISTIC