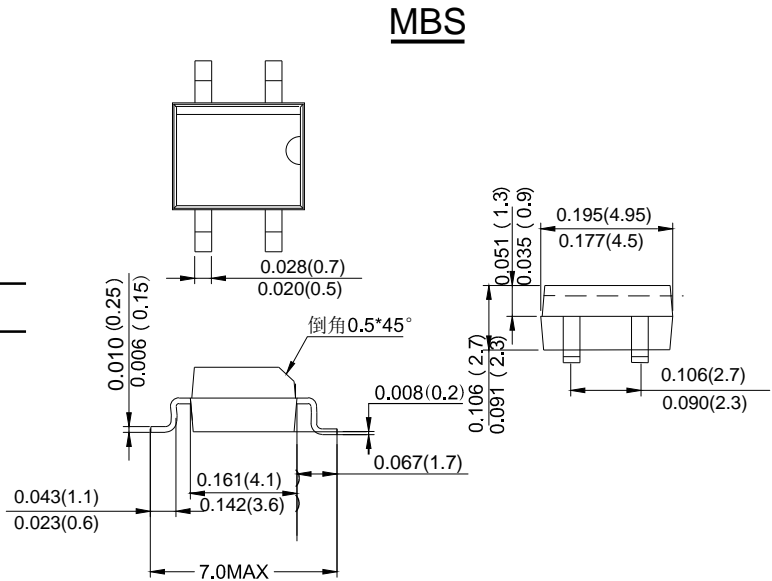


Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 80A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: MB-S, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version,



dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	KMB 32S	KMB 33S	KMB 34S	KMB 345S	KMB 35S	KMB 36S	KMB 38S	KMB 310S	KMB 315S	KMB 320S	KMB 325S	UNITS	
Peak Repetitive Reverse Voltage RMS Reverse Voltage DC Blocking Voltage	V_{RRM}	20	30	40	45	50	60	80	100	150	200	250	V	
	$V_{R(RMS)}$	14	21	28	31	35	42	56	70	105	140	175		
	V_{DC}	20	30	40	45	50	60	80	100	150	200	250		
Average Rectified Output Current (Note1) @ $T_A = 90^\circ\text{C}$	I_o	3.0											A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80											A	
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	5.0											A^2s	
Forward Voltage per element @ $I_F = 3.0\text{A}$	V_{FM}	0.55			0.7			0.85		0.90		0.92	V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_{RM}	0.1						0.05						mA
		10						5						
Typical Junction Capacitance per leg	C_j	28											pF	
Typical Thermal Resistance per leg (Note2)	$R_{\theta JA}$	75											$^\circ\text{C/W}$	
Operating junction temperature range	T_J	-55 to +150											$^\circ\text{C}$	
Operating and Storage Temperature Range	T_{STG}	-55 to +150											$^\circ\text{C}$	

Note:

1. Mounted on aluminum substrate PC board with 1.3mm^2 solder pad.
2. Thermal RESistance From Junction to Ambient

FIG. 1- FORWARD CURRENT DERATING CURVE

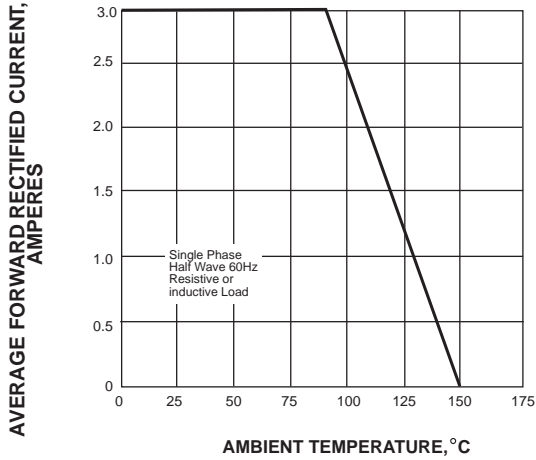


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

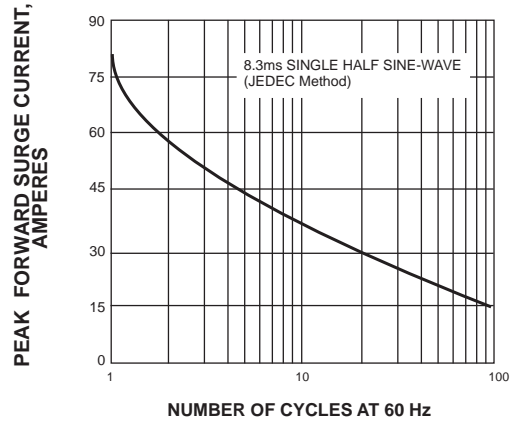


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

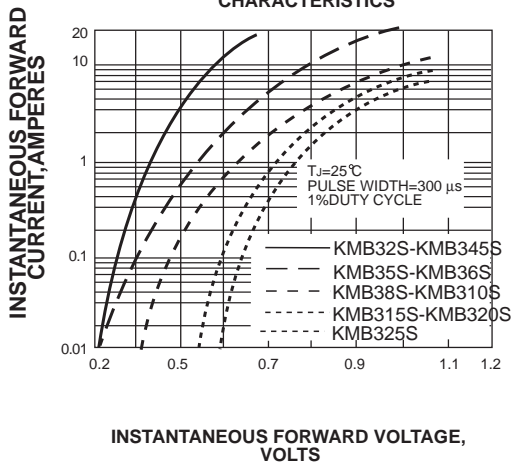


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

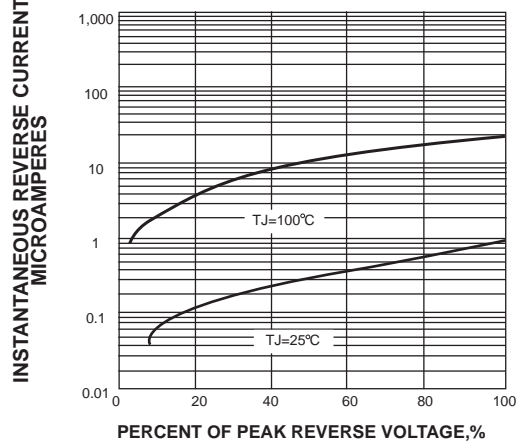


FIG. 5-TYPICAL TRANSIENT THERMAL IMPEDANCE

