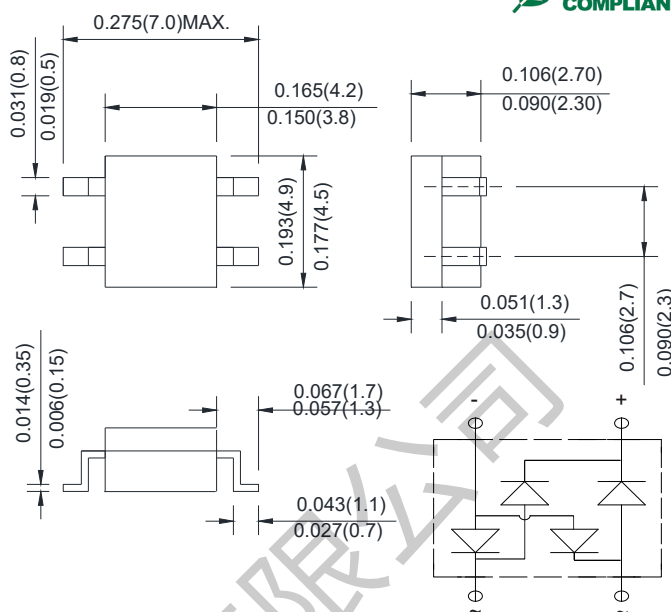


Typical Applications

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballast, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

Features And Mechanical Data

- Package:MB-S
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals applications.
- Terminals: Tin plated leads, solderable per STD-002 and JESD22-B102
- Polarity: As marked on body



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Type number parameter and marking code	Symbols	KB210S	Units
Maximum recurrent peak reverse voltage	VRRM	100	V
Maximum rms voltage	VRMS	70	V
Maximum dc blocking voltage	VDC	100	V
Maximum average forward rectified current. Lead length @ tj=25°C	IAV	2.0	A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	50	A
Current squared time @1ms≤t≤8.3ms TJ=25°C, Rating of per diode	I ² t	10.4	A ² S
Maximum Forward Voltage (300us pulse width, 2% duty cycle)	VF	0.83 0.75	V
Maximum DC reverse current at rated DC blocking voltage per	IR	5 500	uA
Typical thermal resistance tj=25°C 1. Unit mounted on 13 mm*13 mm*1.6 mm 1oz/ft2 glass epoxy PCB board, pad per pin with 2*2mm solder pad areas 2. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.	RθJA RθJC RθJL	95 35 28	°C/W
Typical junction capacitance (@1.0 mhz and applied reverse voltage of 4.0 v dc)	CJ	180	pF
Operating temperature range junction	TJ	-55 to +150	°C
Storage temperature range	TSTG	-55 to +150	°C

Note:

1. Unit mounted on 13 mm*13 mm*1.6 mm 1oz/ft2 glass epoxy PCB board, pad per pin with 2*2mm solder pad areas
2. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

* This product The above data sheet typical data meet the Mentioned standards, designers for reference only

Ordering Information (Example)

Preferred P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
MB-S MB-F TO-269AA	F1	about 0.095	5000	10000	100000 80000	13' reel

RATINGS AND CHARACTERISTIC CURVES

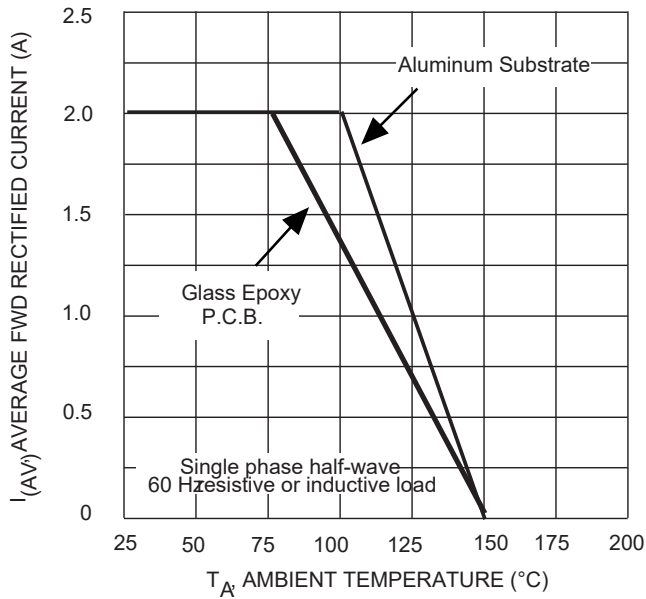


Fig. 1 Forward Derating Curve

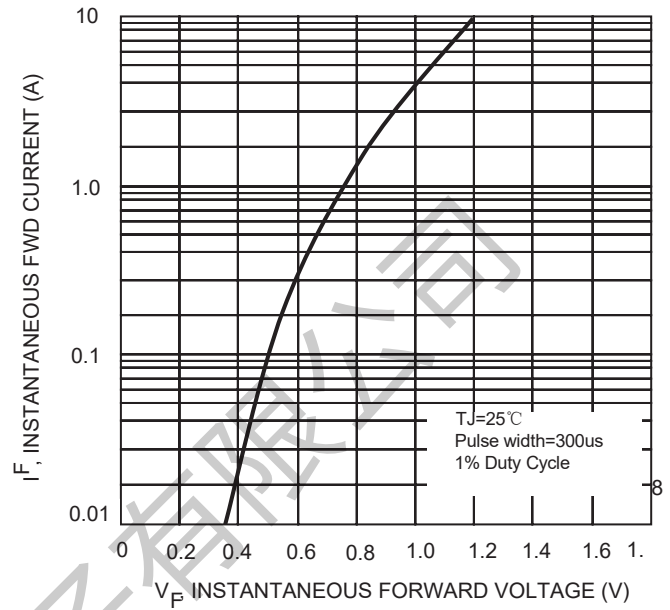


Fig. 2 Typical Forward Characteristics

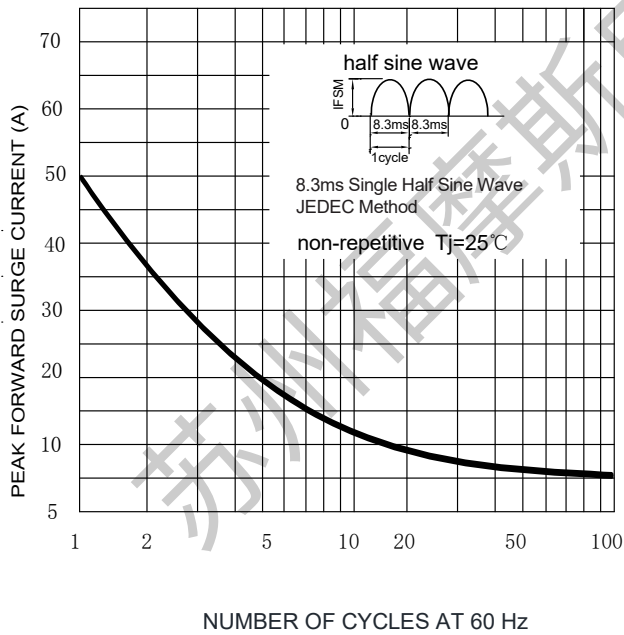


Fig. 3 Peak Forward Surge Current

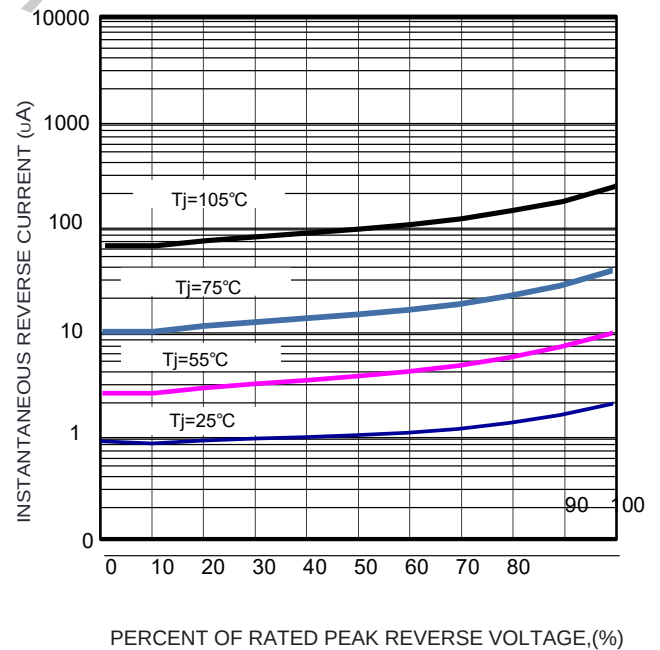


Fig. 4-Typical Reverse Characteristics