MSKSEMI 美森科













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ABS2-MS THRU ABS10-MS

Product specification



ABS2-MS THRU ABS10-MS

SURFACE MOUNT ULTRAFAST RECTIFIER

VOLTAGE:400V TO 600V

CURRENT: 3.0A



Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260 ℃/10 seconds at 5 lbs., (2.3kg) tension
- Small size, simple installation
- High surge current capability
- Glass passivated chip junction
- Green compound(halogen&Sb2O3 free)

Mechanical Data

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750,

Method 2026

Polarity: Polarity symbols marked on case

Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load derate current by 20%.

		SYMBOLS	ABS2-MS	ABS4-MS	ABS6-MS	ABS8-MS	ABS10-MS	UNITS
Maximum repetitive peak reverse voltage		VRRM	200	400	600	800	1000	V
Maximum RMS voltage		VRMS	140	280	420	560	700	V
Maximum DC blocking voltage		VDC	200	400	600	800	1000	V
Maximum average forward rectified current On glass-epoxy P.C.B.(Note1) On aluminum substrate(Note2)		lf(AV)	0.8 1.0				А	
Peak forward surge current, 8.3ms single half sine-wave superimposed onrated load		lfsm	30				А	
Maximum instantaneous forward voltage dropper leg at 0.4A		VF	0.95				٧	
Maximum DC reverse current at rated DC blocking voltage	T a=25 ℃ T a=100 ℃	lR	5 100			uA uA		
Typical thermal resistance(NOTE 3)		R JL R JA	25 75				°C/W	
Operating temperature range		TJ	-55 to +150				$^{\circ}\mathbb{C}$	
storage temperature range		Тѕтс	-55 to +150			$^{\circ}\!\mathbb{C}$		

NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads
2.On aluminum substrate P.C.B. with an area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad
3.Thermal resistance form junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm)

copper pads.



RATINGS AND CHARACTERISTIC CURVES ABS2-MS THRU ABS10-MS

FIG.1 FORWARD DERATING CURVE

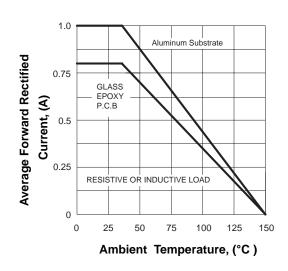
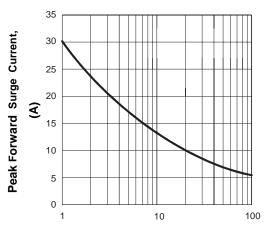
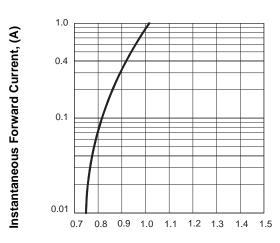


FIG.2 PEAK FORWARD SURGE CURRENT



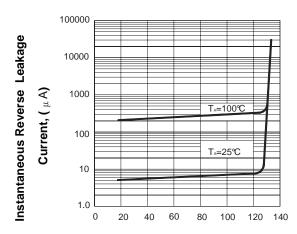
Number Of Cycles At 60Hz

FIG.3 TYPICAL FORWARD CHARACTERISTICS



Instantaneous Forward Voltage, (V)

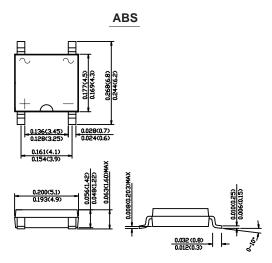
FIG.4 TYPICAL REVERSE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage, %



PACKAGE MECHANICAL DATA



Dimensions in inches and (millimeters)

REEL SPECIFICATION

P/N	PKG	QTY
ABS2-MS THRU ABS10-MS	ABS	5000



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