

MB1SU THRU MB10SU

1.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

DESCRIPTION

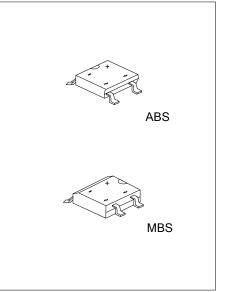
The UTC **MB1SU THRU MB10SU** is a 1.0A surface mount glass passivated bridge rectifiers, it uses UTC's advanced technology to provide customers with high surge current capability, etc.

The UTC **MB1SU THRU MB10SU** is suitable for surface mount application.

FEATURES

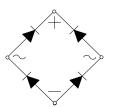
* Low leakage

- * Surge overload rating-30A peak
- * Glass passivated die construction
- * Designed for Surface Mount Application



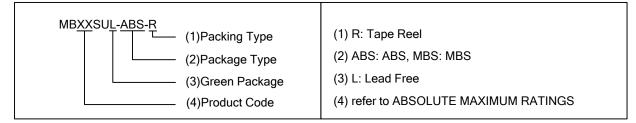
SCHOTTKY BRIDGE

SYMBOL

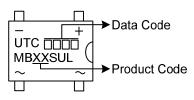


ORDERING INFORMATION

Ordering Number	Package	Packing
MBXXSUL-ABS-R	ABS	Tape Reel
MBXXSUL-MBS-R	MBS	Tape Reel



MARKING



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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

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

PARAMETER		SYMBOL	RATINGS						
			MB1SU	BM2SU	MB4SU	MB6SU	BM8SU	MB10SU	UNIT
Peak Repetitive Reverse Voltage		V _{RRM}	100	200	400	600	800	1000	V
Working Peak Reve	erse Voltage	V _{RWM}	100	200	400	600	800	1000	V
DC Blocking Voltag	e	V_{DC}	100	200	400	600	800	1000	V
RMS Reverse Voltage		V_{RMS}	70	140	280	420	560	700	V
Average Rectified Output Current	T _A =40°C (Note 1)	Ι _ο	1.0					А	
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	35					A	
Operating Junction	ting Junction Temperature Range T_J -55 ~ +150			°C					
Storage Temperatu	re Range	T _{STG}	тд -55 ~ +150			°C			

 Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.
2. Mounted on glass epoxy pc board with 1.3mm² solder pad.

THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	70	°C/W

■ ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

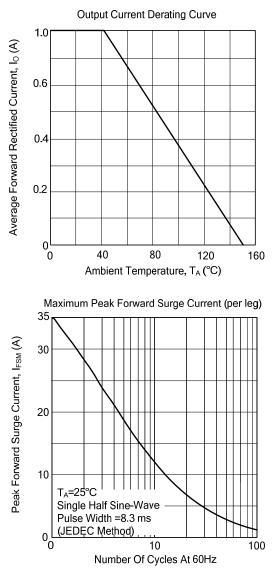
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V _F	I _F =1.0A			1.1	V
DC Reverse Current at Rated DC Blocking		TJ=25°C			5.0	μA
Voltage	IR	T _J =125°C			500	μA
Junction Capacitance (Note)	CJ			13		pF

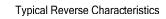
Note: Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

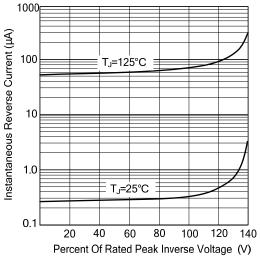


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TYPICAL CHARACTERISTICS

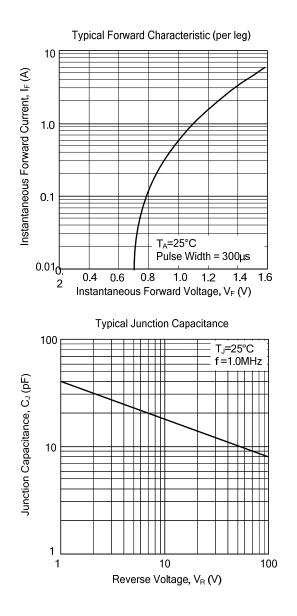








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