MB1SU THRU MB10SU

SCHOTTKY BRIDGE

1.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

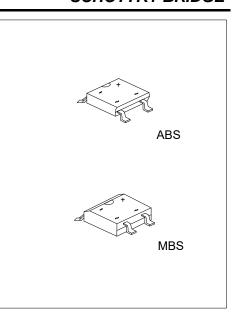
DESCRIPTION

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.

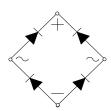
The UTC **MB1SU THRU MB10SU** is suitable for surface mount application.

■ FEATURES

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

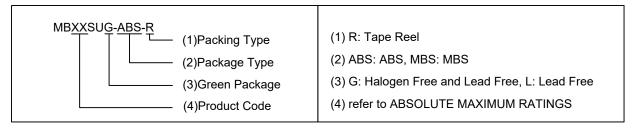


■ SYMBOL

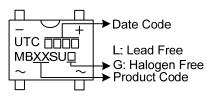


■ ORDERING INFORMATION

Ordering Number		Package	Da alde e		
Lead Free	Lead Free Halogen Free		Packing		
MBXXSUL-ABS-R	MBXXSUG-ABS-R	ABS	Tape Reel		
MBXXSUL-MBS-R	MBXXSUG-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						LINUT
			MB1SU	MB2SU	MB4SU	MB6SU	MB8SU	MB10SU	UNIT
Peak Repetitive Reverse Voltage		V_{RRM}	100	200	400	600	800	1000	V
Working Peak Reverse Voltage		V_{RWM}	100	200	400	600	800	1000	V
DC Blocking Voltage		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)	lo	1.0						Α
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	35						А
Operating Junction Temperature Range		TJ	-55 ~ + 150						°C
Storage Temperature Range		T_{STG}	-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.

■ THERMAL DATA

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

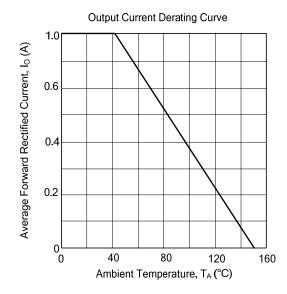
■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C unless otherwise noted)

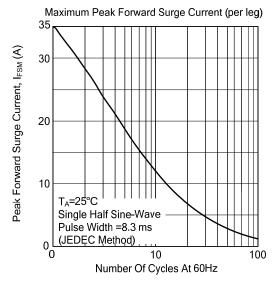
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_{F}	I _F =1.0A			1.1	V
DC Reverse Current at Rated DC Blocking	ı	T _J =25°C			5.0	μΑ
Voltage	IR	T _J =125°C			500	μΑ
Junction Capacitance (Note)	Сл			13		pF

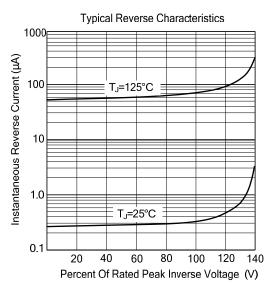
Note: Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

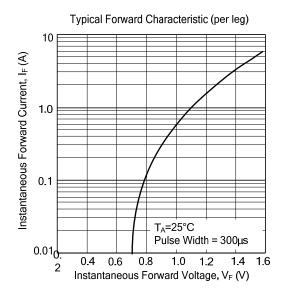
^{2.} Mounted on glass epoxy pc board with 1.3mm² solder pad.

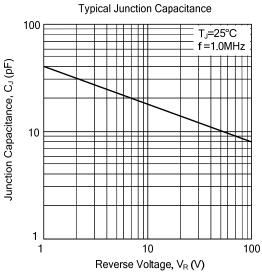
■ TYPICAL CHARACTERISTICS











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