

**Surface Mount Schottky Bridge Rectifiers**
**REVERSE VOLTAGE: 20 - 100 V**
**MDB22S-MDB210S**
**FEATURES**

High Temperature Soldering Guaranteed:260 C/10 Second

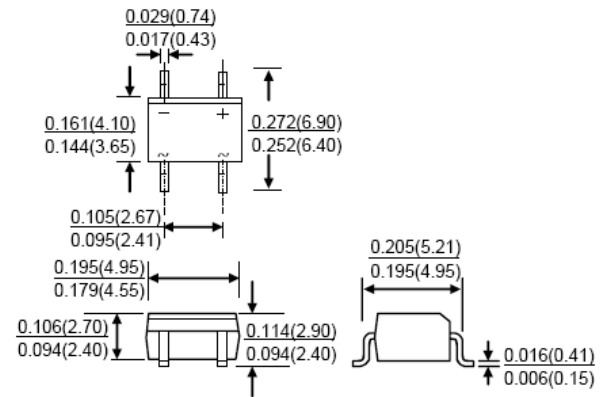
Saves Space On Printed Circuit Board

**MECHANICAL DATA**

Case: MBS

Epoxy: UL94V-O rate flame retardant

Lead: Lead Formed for Surface Mount

**MBS (TO-269AA)**


Dimensions in inches and ( millimeters )

**Maximum Ratings** ( $T_c=25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol	MDB22	MDB24	MDB26	MDB28	MDB210	Unit
Maximum repetitive peak reverse voltage	VRRM	20	40	60	80	100	V
Working peak reverse voltage	VRWM	14	28	42	56	70	V
Maximum DC blocking voltage	VDC	20	40	60	80	100	V
Maximum average forward rectified current Total device	IF(AV)	2					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50					A
Operating junction temperature range	TJ	-55 to +150					$^\circ\text{C}$
Storage temperature range	TSTG	-55 to +150					$^\circ\text{C}$

**Electrical characteristics** ( $T_c=25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol	Value					Unit
Maximum instantaneous at $I_F=1\text{A}$ , $T_j=25^\circ\text{C}$	VF	0.45	0.50	0.70	0.85	0.85	V
Maximum reverse current $T_j=25^\circ\text{C}$	IR	500					$\mu\text{A}$
at working peak reverse voltage $T_j=125^\circ\text{C}$		20					$\text{m}'\text{A}$

**Thermal characteristics** ( $T_c=25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol						Unit
Typical thermal resistance	R $\theta$ JA	85					$^\circ\text{C}/\text{W}$
	Rthjl	28					

**NOTE :**

1.Pulse test: Pulse width 300us, duty cycle 1%

## Ratings and Characteristic Curves

FIG. 1 FORWARD DERATING CURVE

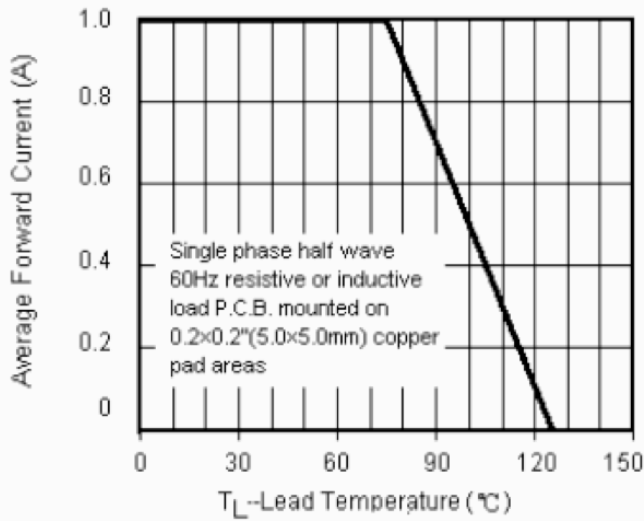


FIG. 2 PEAK FORWARD SURGE CURRENT

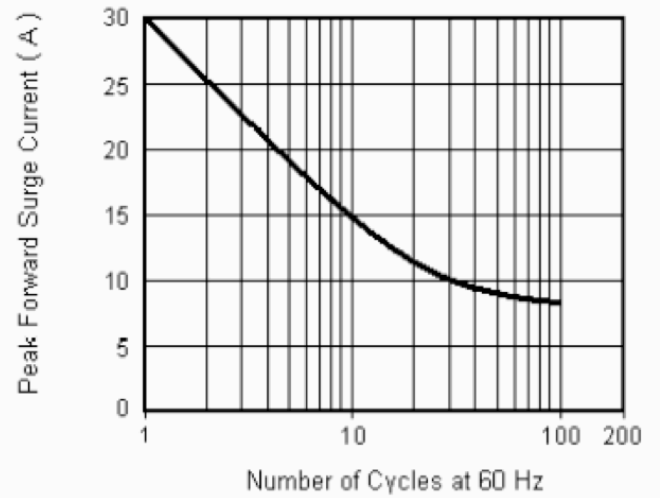


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

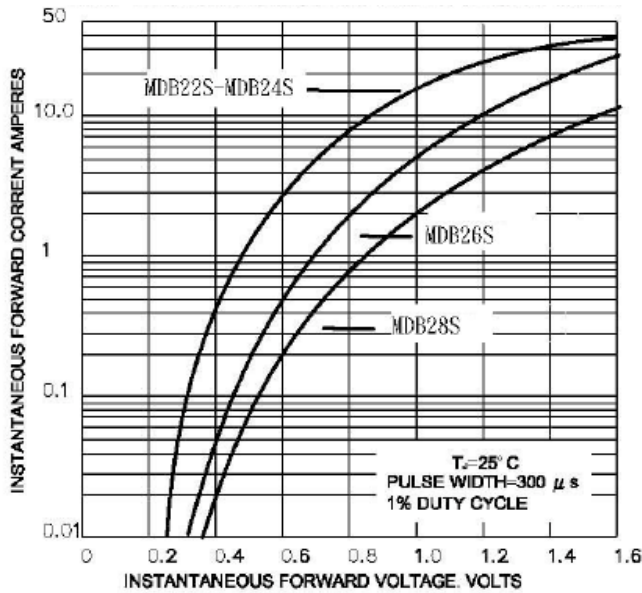


FIG. 4 TYPICAL JUNCTION CAPACITANCE

