Formosa MS

ABS2 THRU ABS10

1.0A Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifiers-200-1000V

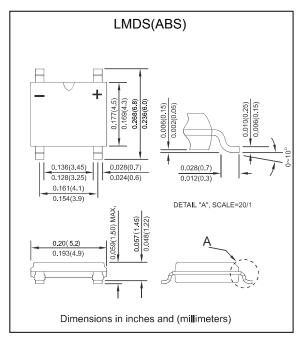
Features

- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- High surge current capability
- Suffix "-H" indicates Halogen-free part, ex.ABS2-H.
- UL recognized file # E321971

Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, LMDS(ABS)
- Terminals : Solder plated, solderable per MIL-STD-202, Method 208
- Polarity : marked on body
- Mounting Position : Any
- Weight : Approximated 0.099 gram

Package outline



Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

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PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	On glass-epoxy P.C.B. On aluminum substrate	I _o			0.8 1.0	А
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I _{FSM}			30	А
Reverse current	$ \begin{array}{l} V_{\textrm{\tiny R}} = V_{\textrm{\tiny RRM}} \ T_{\textrm{\tiny J}} = 25^{\circ}\text{C} \\ V_{\textrm{\tiny R}} = V_{\textrm{\tiny RRM}} \ T_{\textrm{\tiny J}} = 125^{\circ}\text{C} \end{array} $	I _R			5.0 200	μA
Typical Thermal resistance	Junction to lead On aluminum substrate On Glass-Epoxy substrate	$R_{_{ extsf{ hetaJL}}}$		25 62.5 80		°C/W
Rating for fusing (t < 8.3 ms)		I²t			3.7	A²s
Storage temperature		Τ _{stg}	-55		+150	°C

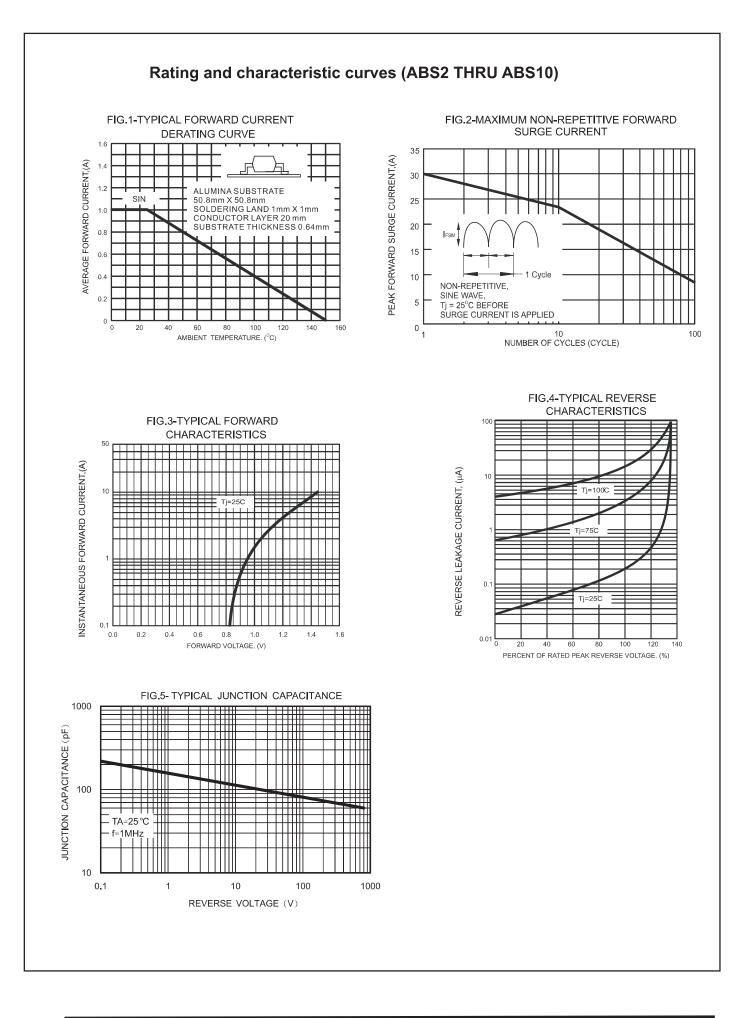
SYMBOLS	×1 V _{RRM} (V)	V _{RMS} *2 (V)	V ^{*3} (V)	V _F *4 (V)	Operating temperature T _J , (°C)
ABS2	200	140	200		
ABS4	400	280	400		
ABS6	600	420	600	1.00	-55 to +150
ABS8	800	560	800		
ABS10	1000	700	1000		

- *1 Repetitive peak reverse voltage
- *2 RMS voltage
- *3 Continuous reverse voltage
- *4 Maximum forward voltage@I_F=0.8A



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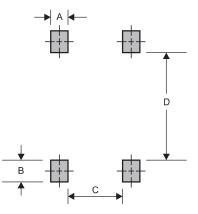
Pinning information

Simplified outline	Symbol
	+

Marking

Type number	Marking code	Example		
ABS2 ABS4 ABS6 ABS8 ABS10	ABS2 ABS4 ABS6 ABS8 ABS10	1. For Halogen Device	2. For Halogen-free Device H H 1st line: = indicate Halogen-Free. FMS 2ndline: LOGO ABS10 3rdline: Marking code	

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	А	В	С	D
LMDS/ABS	0.024 (0.60)	0.024 (0.60)	0.132 (3.35)	0.193 (4.90)

