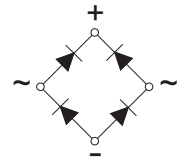
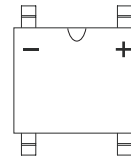


»Features

- Glass Passivated Chip Junction
- Reverse Voltage 200 to 1000 V
- Forward Current 1 A
- High surge current capability
- Designed for Surface Mount Application



**ABS/LBF**

»General Description

- Case: molded plastic
- Polarity: As marked on body
- Package: ABS/LBF Plastic Package

» Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half wave 60HZ. resistive or inductive load. For capacitive load current derate by 20%

Parameter	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	200	400	600	800	1000	V
Maximum Average Forward Rectified Current On glass-epoxy On aluminum substrate	$I_{F(AV)}$	0.8 1.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	30					A
Maximum Instantaneous Forward Voltage (Note 1) @ 0.4A	$V_F$	1.0					V
Rating for fusing (t<8.3ms)	$I^2T$	3.74					
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25\text{ }^\circ\text{C}$ $T_A=125\text{ }^\circ\text{C}$	$I_R$	10 150					$\mu\text{A}$
Typical Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$	25 80					$^\circ\text{C/W}$
Operating Temperature Range	$T_J$	- 55 to + 150					$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	- 55 to + 150					$^\circ\text{C}$

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

»Typical Performance Characteristics ((T<sub>J</sub> = 25 °C, unless otherwise noted))

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

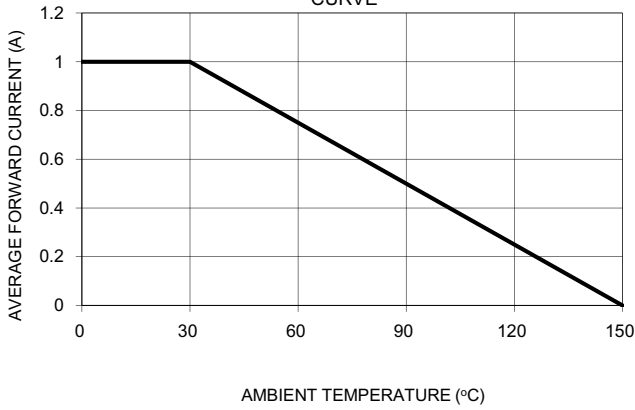


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

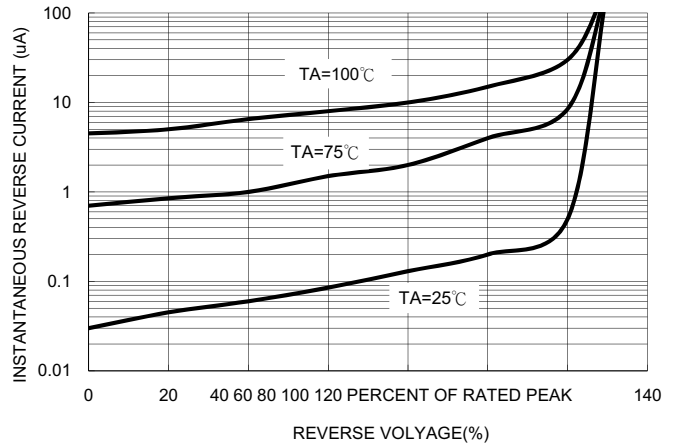


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

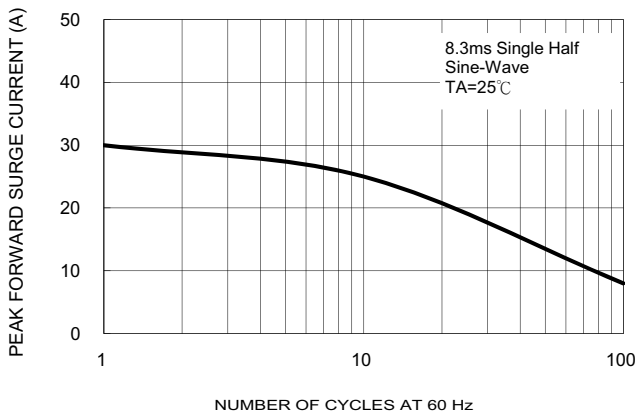


FIG. 4 TYPICAL JUNCTION CAPACITANCE

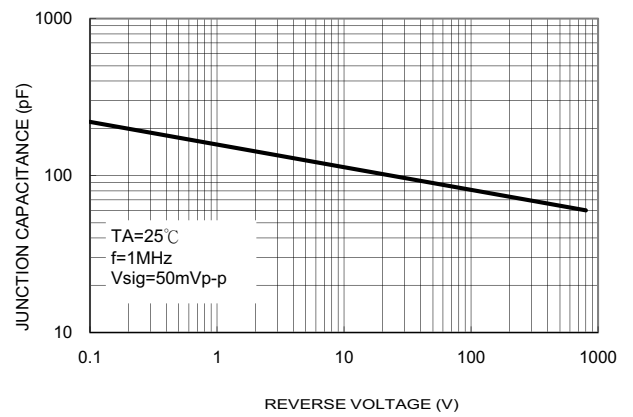
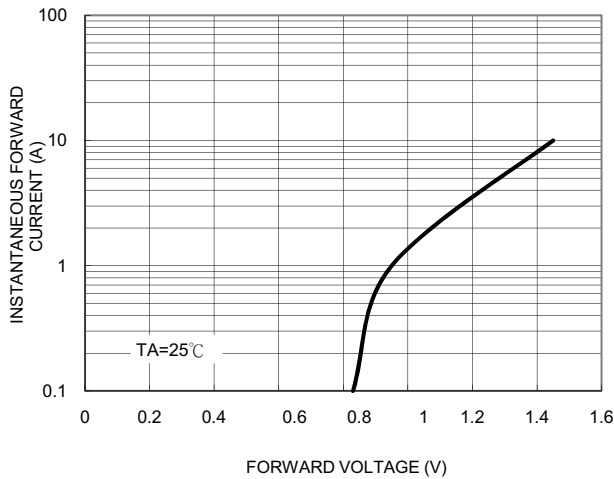
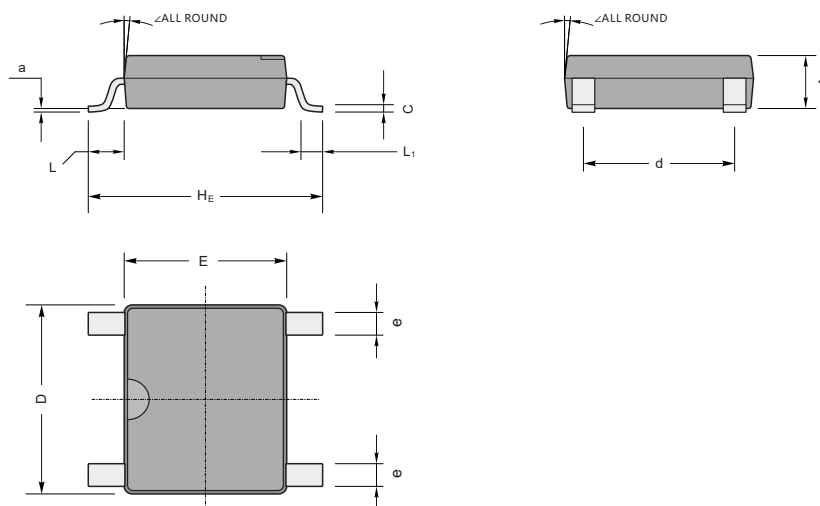


FIG. 5 TYPICAL FORWARD CHARACTERISTIC



»Package Information

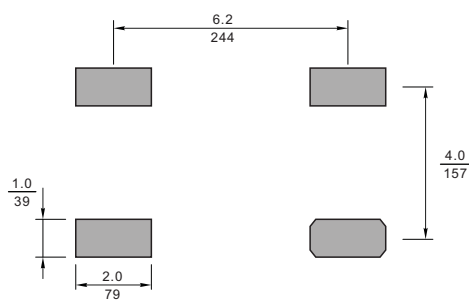
**ABS/LBF**



ABS/LBF mechanical data

UNIT		A	C	D	E	HE	d	e	L	L <sub>1</sub>	a	$\angle$
mm	max	1.5	0.22	5.2	4.5	6.4	4.2	0.7	0.95	0.6	0.2	7°
	min	1.3	0.15	4.9	4.2	6.0	3.8	0.5				
mil	max	59	8.7	205	177	252	165	28	37	24	4	
	min	51	5.9	193	166	236	150	20				

The recommended mounting pad size Unit :  $\frac{\text{mm}}{\text{mil}}$



»Ordering information

Part Number	ABS2	ABS4	ABS6	ABS8	ABS10
Marking	ABS2	ABS4	ABS6	ABS8	ABS10
Base qty	5K	5K	5K	5K	5K