

ABS



Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ Glass passivated Junction chip
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250°C/10 seconds at terminals

Mechanical Data

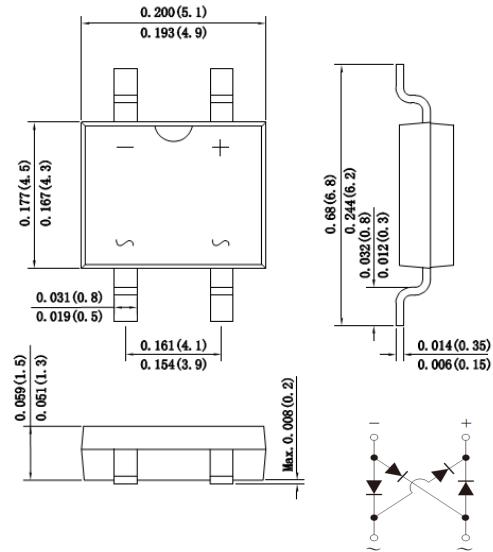
Case : Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750,Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.0034 ounce, 0.098 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

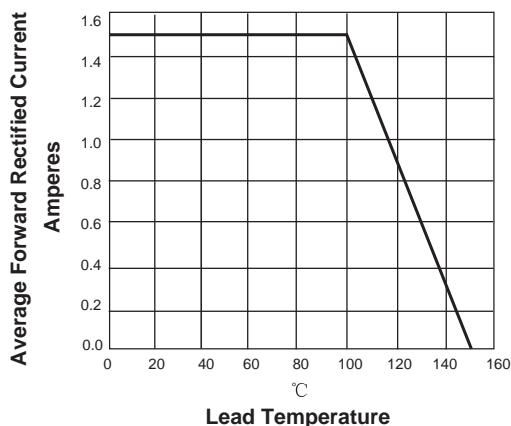
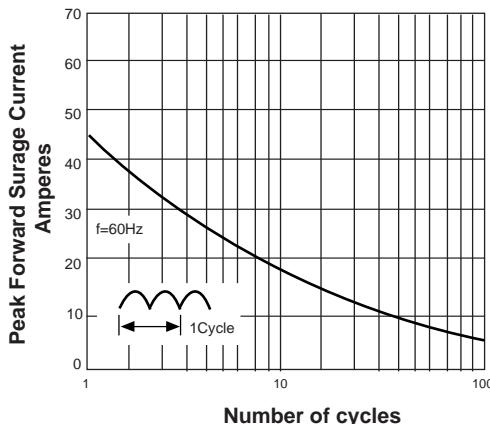
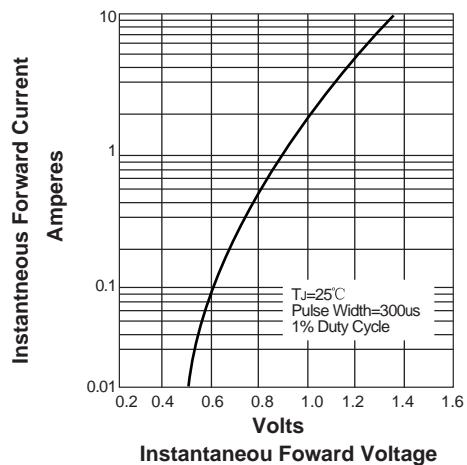
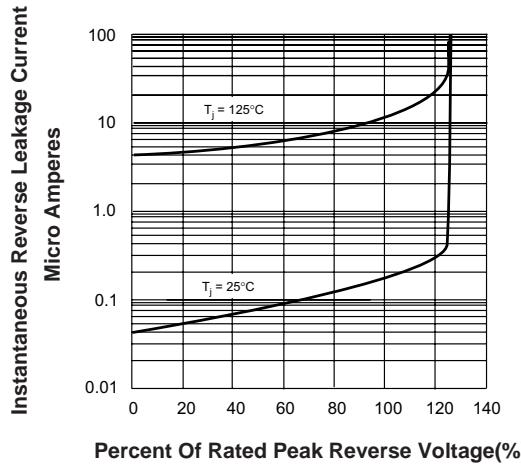
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	ABS152	ABS154	ABS156	ABS158	ABS1510	UNITS
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 at T _L =100°C On glass-epoxy P.C.B (Note 1)	I _(AV)				1.5		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}				45.0		A
Rating for fusing (t=8.3ms, Ta=25°C)	I ² t				8.40		A ² s
Maximum instantaneous forward voltage at 1.5A	V _F			1.10			V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R			5.0 500			uA
Typical junction capacitance (Note 2)	C _J			18.0			pF
Typical thermal resistance	R _{QJA}			80.0			°C/W
Operating junction and storage temperature range	T _{J,T_{STG}}			-55 to +150			°C

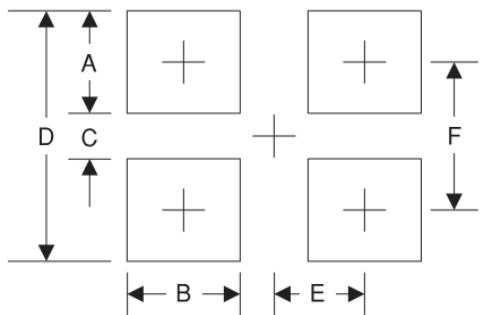
Note:1.Mounted on glass epoxy PC board with 1.3*1.3mm solder pad

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Ratings And Characteristic Curves

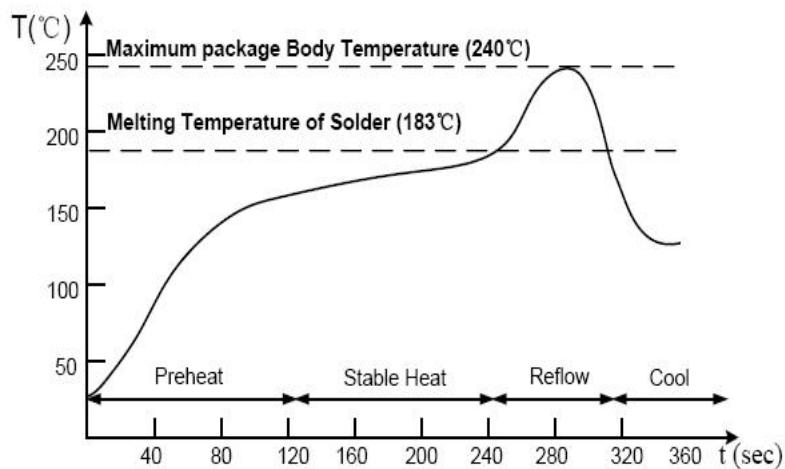
FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG****FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS****FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS**

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	1.5	0.059
B	1.0	0.039
C	4.22	0.166
D	7.22	0.284
E	2.0	0.078
F	5.70	0.224

Suggested Soldering Temperature Profile

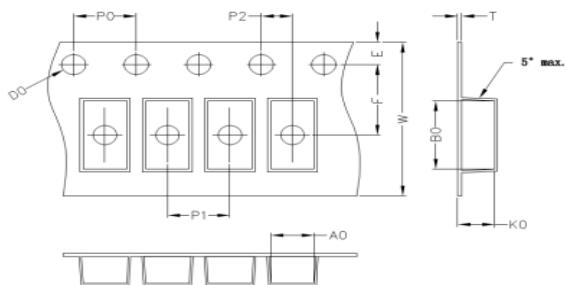


Note

- ◆ Recommended reflow methods: IR, vapor phase oven, hot air oven, wave solder.
- ◆ The device can be exposed to a maximum temperature of 265°C for 10 seconds.
- ◆ Devices can be cleaned using standard industry methods and solvents.
- ◆ If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Package Information

Carrier Dimension(mm)



A0	B0	K0	D0	E	F
5.31	6.68	1.6	1.55	1.75	5.50
P0	P1	P2	T	W	Tolerance
4.0	8.0	2.0	0.25	12	0.1

Package Specifications

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)
ABS	11'	278	3	280	6	355*310*310	48
	13'	330	5	338	10	365*365*360	80