

VOLTAGE RANGE CURRENT 100 to 1000 Volts 1.0 Ampere

Features <u>ABS</u>



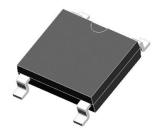
- Glass passivated chip junction
- Ideal for surface mounted applications
- Low leakage
- High forward surge current capability
- High temperature soldering guaranteed:260°C/10 seconds at terminals

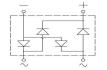
#### Mechanical Data

- Case: Molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Molded on body
- LeadP: Plated terminals solderable per MIL-STD-202E method 208C
- Weight: 0.003 ounce, 0.10 grams



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





TYPE NUMBER			ABS01	ABS02	ABS04	ABS06	ABS08	ABS10	UNIT
Maximum Reverse Peak Repetitive Voltage			100	200	400	600	800	1000	Volts
Maximum RMS Voltage		$V_{\text{RMS}}$	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06" (1.5mm) lead length at T₁=100°C			1.0						Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)			30						Amps
Peak Forward Surge Current 1.0ms single half sine wave superimposed on rated load (JEDEC Method)			80						Апрз
Rating for Fusing (t < 8.3ms)			3.7						A <sup>2</sup> s
Maximum Instantaneous Forward Voltage drop Per Bridge element 1.0A			1.1						Volts
Maximum Reverse Current at rated DC blocking TA=25°C			5						\
voltage per element	TA=125℃	I <sub>R</sub>	50						μAmps
Typical Junction Capacitance (NOTE 1)			25						рF
Typical Thermal Resistance (NOTE 2)			70						°C/W
Operating and Storage Temperature Range			(-55 to +150)						℃

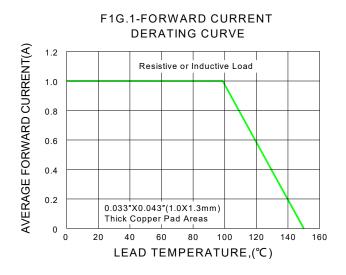
#### Notes:

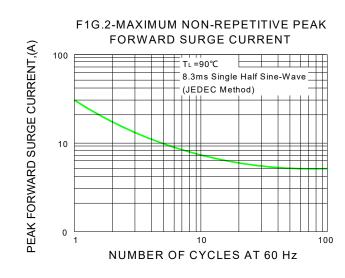
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2. Unit mounted on P.C.B. with 0.033"×0.043"(1.00mm×1.30mm) copper pads.

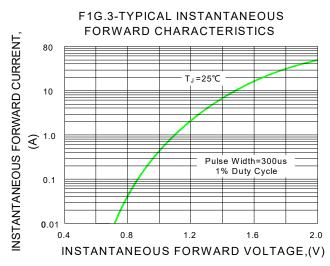


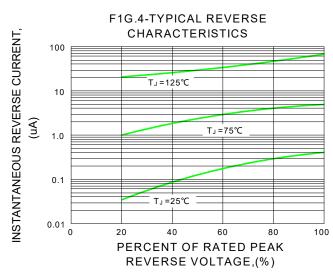
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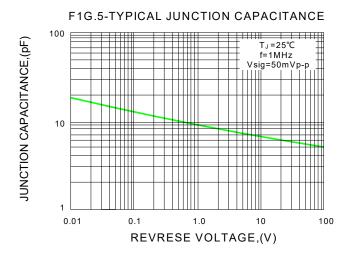
Ratings and Characteristic Curves (T<sub>A</sub>=25°C unless otherwise noted)







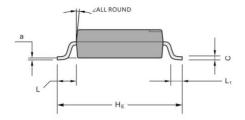


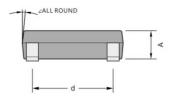


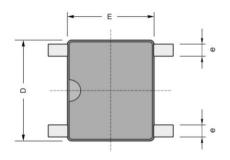


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Package Outline Dimensions in inches (millimeters)







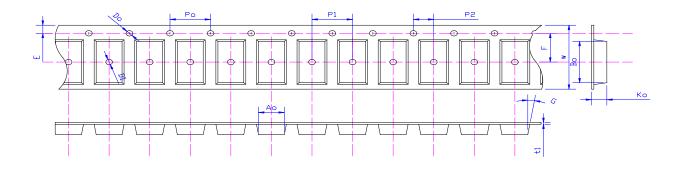
UNIT		Α	С	D	E	HE	d	е	L	L <sub>1</sub>	а	
mm	max	1.5	0.25	5.2	4.5	6.5	4.2	0.7	0.95	0.6	0.2	
111111	min	1.3	0.15	4.9	4.2	6.0	3.8	0.5	0.93	0.0	0.2	7°
mail	max	59	8.7	205	177	256	165	28	0.7	24	8	
mil	min	51	5.9	193	166	236	150	20	37			



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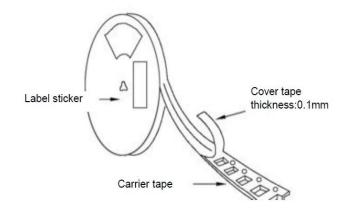
# Packing Requirments

• PS black anti-static carrier tape packing



Specifications	Ao	Во	Ко	Ро	W	t1
ABS	5.31±0.10	6.68±0.10	1.59±0.10	4.00±0.1	12.0±0.10	0.30±0.02

• 13 "antistatic plastic reel

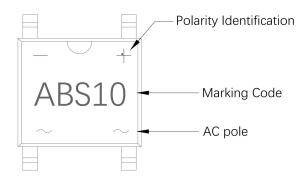


	13" Reel						
DEVICE TYPE	Q'TY/REEL(pcs)	REEL/BOX	BOX/CARTOON	Q'TY/CARTON(pcs)			
ABS	5000	2	8	80000			

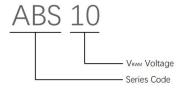


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# Marking Code



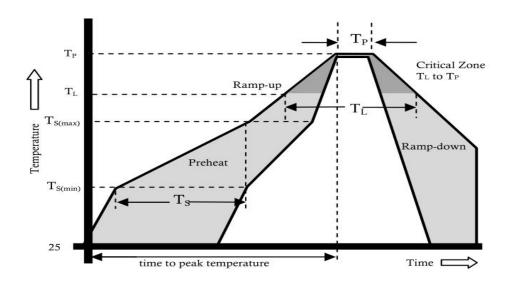
## Part Number Code





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### Reflow Profile



	Reflow Condition	Pb-Free Assembly			
	Temperature Min.	+150°C			
Pre Heat	Temperature Max.	+200°C			
	Time(Min to Max)	60-180 secs.			
Average ram	np up rate(Liquidus Temp(T <sub>L</sub> ) to peak)	3°C/sec. Max.			
T <sub>s</sub> (	max) to T <sub>L</sub> - Ramp-up Rate	3°C/sec. Max.			
Reflow	Temperature $(T_L)$ (Liquidus)	+217°C			
Reliow	Temperature (T <sub>L</sub> )	60-150 secs.			
	Peak Temp (T <sub>P</sub> )	+(260+0/-5 )°C			
Time wit	thin 5°C of actual Peak Temp (T <sub>P</sub> )	25 secs.			
	Ramp-down Rate	6°C/sec. Max.			
Tiı	me 25°C to peak Temp (T₂)	8 min. Max.			
	Do not exceed	+260°C			



### Surface mounted rectifier bridge reactor

#### ABS01 THRU ABS10

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#### Disclaimer

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