

1A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER Reverse Voltage - 100 to 1000 V Forward Current - 1.2 A

FEATURES

♦High current capability

♦Low forward voltage drop

♦Glass Passivated Chip Junction

♦Low power loss, high efficiency

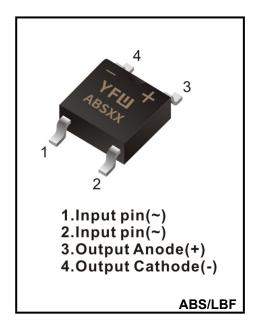
♦Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

♦Case: ABS/LBF

♦Terminals: Solderable per MIL-STD-750, Method 2026

♦Approx. Weight: 88mg / 0.0031oz



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Single phase hall-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.									
Parameter		Symbols	ABS1-50	ABS2-50	ABS4-50	ABS6-50	ABS8-50	ABS10-50	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at T _c = 125 °C		I _o	1.2					A	
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)		I _{FSM}	40					Α	
Forward Voltage per element @I _F =1.0A		$V_{\scriptscriptstyle F}$	1.1					V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A =25°C @T _A =100°C @T _A =125°C	I _R			5	5 0 00			μА
Typical Junction Capacitance (Note1)		C_{j}	13					pF	
Typical Thermal Resistance (Note2)		$R_{\theta JA}/R_{\theta JC}$	72/20					°C/W	
Operating and Storage Temperature Range		T_{j},T_{stg}	-55 ~ + 150					°C	

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

⁽²⁾ Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.



Ratings And Characteristic Curves

Fig.1 Average Rectified Output Current Derating Curve 1.2 1.0

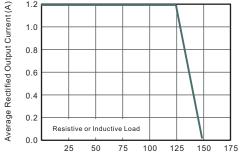


Fig.2 Typical Reverse Characteristics

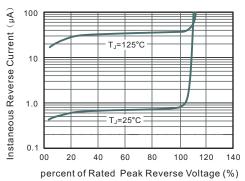


Fig.3 Typical Instaneous Forward Characteristics

Case Temperature (°C)

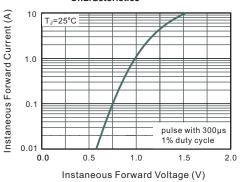


Fig.4 Typical Junction Capacitance

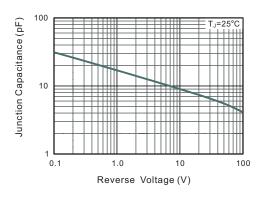
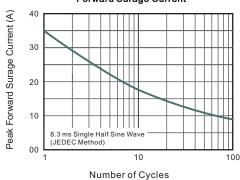


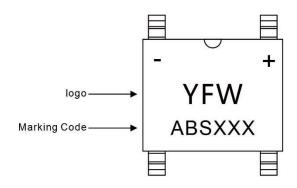
Fig.5 Maximum Non-Repetitive Peak **Forward Surage Current**



2 / 4



Marking Diagram

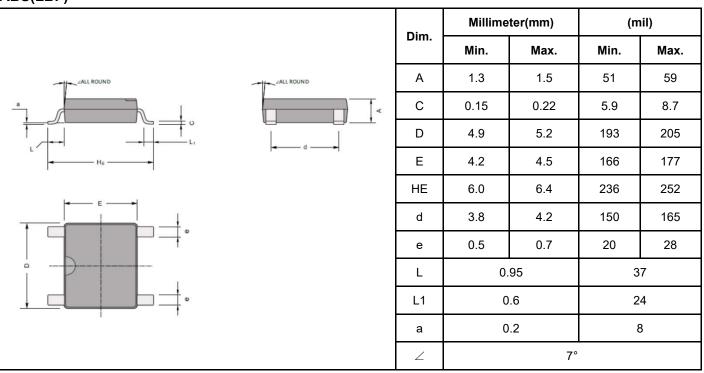


Ordering information

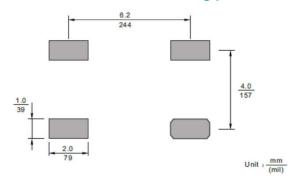
Package	Packing Description	Packing Quantity			
ABS(LBF)	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton			

Package Dimensions

ABS(LBF)



The recommended mounting pad size





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