

1.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

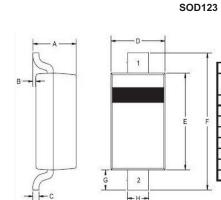


FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



1.0 Ampere



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0,037	0,053	0,95	1,35		
В	0,000	0,005	0,00	0,12		
С		0.008	-	0.20		
D	0.055	0.071	1.40	1.80		
E	0.098	0.110	2.50	2.80		
F	0.142	0.154	3.60	3.90		
G	0.016	3.0	0.40	-		
Н	0,020	0.028	0.50	0.70		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	B5819W	UNITS
Maximum Recurrent Peak Reverse Voltage	40	V
Maximum RMS Voltage	21	V
Maximum DC Blocking Voltage	40	V
Maximum Average Forward Rectified Current		
See Fig. 1	1.0	А
Peak Forward Surge Current, 8.3 ms single half sine-wave		
superimposed on rated load (JEDEC method)	9	Α
Maximum Instantaneous Forward Voltage at 1.0A	0.58	V
Maximum DC Reverse Current Ta=25°C	0.05	mA
at Rated DC Blocking Voltage Ta=100°C	8	mA
Typical Junction Capacitance (Note1)	30	pF
Typical Thermal Resistance R JA (Note 2)	400	°C/W
Operating Temperature Range T _J	-65 —+125	°C
Storage Temperature Range Tsтc	-65 — +150	°C

NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (B5819W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

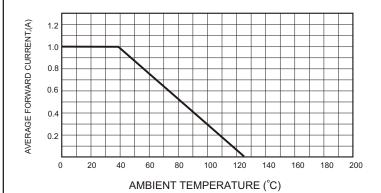


FIG.3 - Power Derating Curve

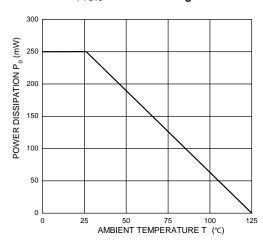


FIG.4-TYPICAL JUNCTION CAPACITANCE

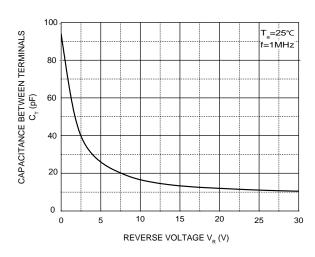


FIG.2-TYPICAL FORWARD

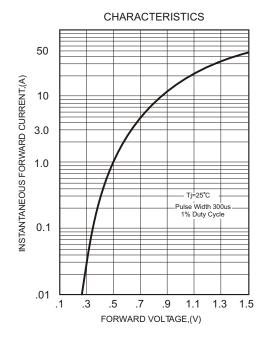


FIG.5 - TYPICAL REVERSE

