

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Surface Mount Package Ideally Suited for Automatic Insertion
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 667°C/W Junction to Ambient

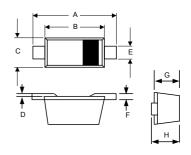
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B5817X2	4A	20V	14V	20V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1A	
Non-Repetitive Peak Forward Surge Current	I _{FSM}	4A	8.3ms Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.30V 0.40V 0.60V	I _F =10mA; I _F =100mA; I _F =1A;
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	20μA 30μA	$V_R = 10V, T_A = 25^{\circ}C$ $V_R = 20V, T_A = 25^{\circ}C$
Capacitance Between Terminals	C _T	120pF	V _R =0, f=1MHz
Power Dissipation	P _D	150mW	

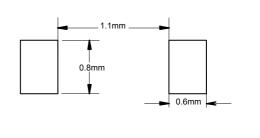
1 Amp Schottky Rectifier 20 Volts





DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.059	0.067	1.50	1.70			
В	0.043	0.051	1.10	1.30			
С	0.030	0.033	0.75	0.85			
D	0.001	0.003	0.01	0.07			
Е	0.010	0.014	0.25	0.35			
F	0.003	0.006	0.08	0.15			
G	0.020	0.028	0.50	0.70			
Н	0.020	0.031	0.51	0.77			

Suggested Solder Pad Layout





Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

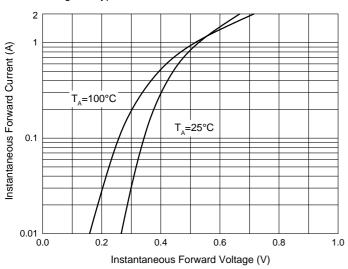


Fig. 3 - Power Derating Curve

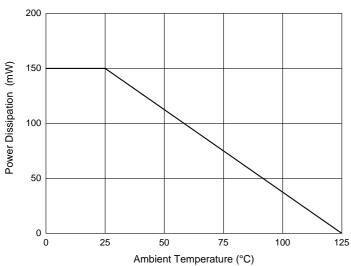
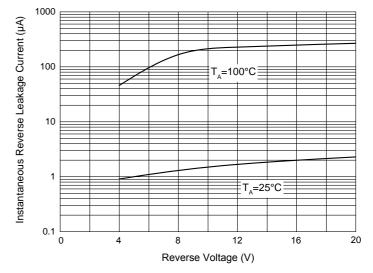


Fig. 2 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 8Kpcs/Reel	

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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