

Features

- Halogen Free. "Green" Device (Note 1)
- Fast Switching Speed
- Surface Mount Package Ideally Suited For Automatic Insertion
- Low Forward Voltage Drop.
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

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

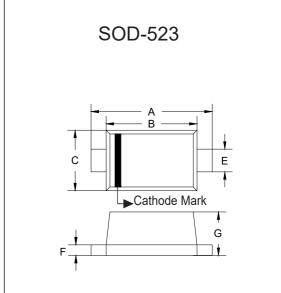
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAT43X	S8	30V	21V	30V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward Continuous Current	I _{FM}	200mA	
Repetitive Peak Forward Surge Current	I _{FRM}	500mA	t<1.0s
Non-repetitive Peak Forward Surge Current	I _{FSM}	4A	t<10ms
Power Dissipation	P _D	150mW	
Forward Voltage	V _F	0.26V(Min) 0.33V(Max)	I _F =2mA;
Torward voltage		0.45V(Max) 1.0V(Max)	I _F =15mA; I _F =200mA;
Maximum Peak Reverse Current	I _{RM}	500nA	V _R = 25V
Junction Capacitance	CJ	10pF(Max)	V _R =1V, f=1.0MHz
Reverse Recovery Time	T _{RR}	5ns(Max)	$I_F=I_R=10$ mA $Irr=0.1I_R$ $R_L=100OHMS$

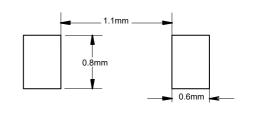
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Schottky Barrier Diode 150mW



DIMENSIONS								
DIM	INCHES		MM		NOTE			
DIM	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				
Е	0.010	0.014	0.25	0.35				
F	0.003	0.008	0.08	0.20				
G	0.020	0.026	0.50	0.65				

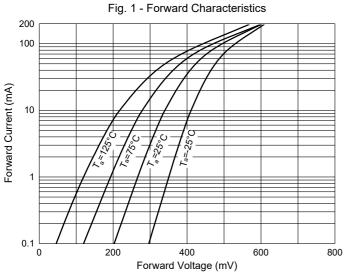
Suggested Solder Pad Layout

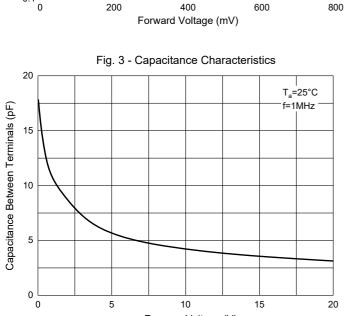


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Curve Characteristics





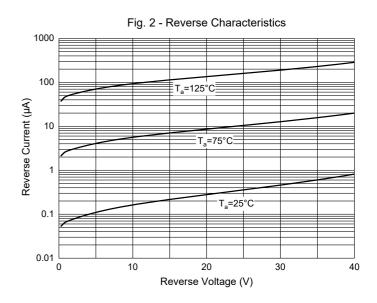
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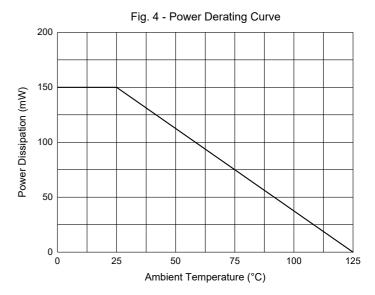
Reverse Voltage (V)

15

20

5







Ordering Information

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

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