Features

- Low Current Leakage
- Surface Mount SOT-23 Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. “Green” Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

200mW Schottky Diode

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

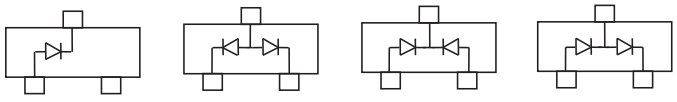
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAR43	D95	30V	30V
BAR43A	DB1	30V	30V
BAR43C	DB2	30V	30V
BAR43S	DA5	30V	30V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	200mA	
Power Dissipation	P_D	200mW	T_A= 25 °C
Maximum Forward Voltage	V_F	0.33V 0.45V 0.80V	I_F=2mA I_F=15mA I_F=100mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.5μA	V_R = 25V
Maximum Reverse Breakdown Voltage	$V_{(BR)}$	30V(min)	I_R=100μA
Maximum Reverse Recovery Time	t_{rr}	5.0ns	I_F=I_R=10mA;I_{RR}=1mA R_L=100Ω

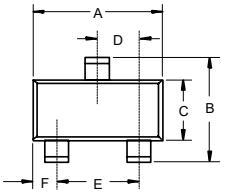
Note: 1. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

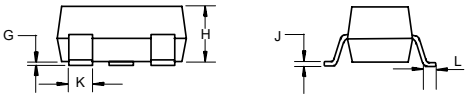
Internal Structure



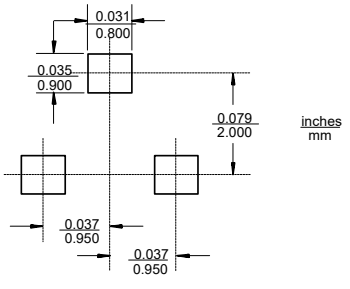
BAR43 BAR43A BAR43C BAR43S

SOT-23





DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.083	0.104	2.10	2.64	
C	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
H	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	



Curve Characteristics

Fig. 1 - Forward Characteristics

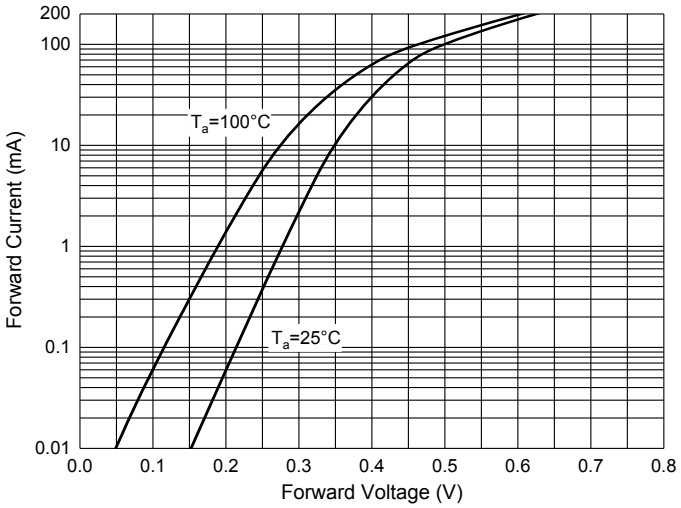


Fig. 2 - Reverse Characteristics

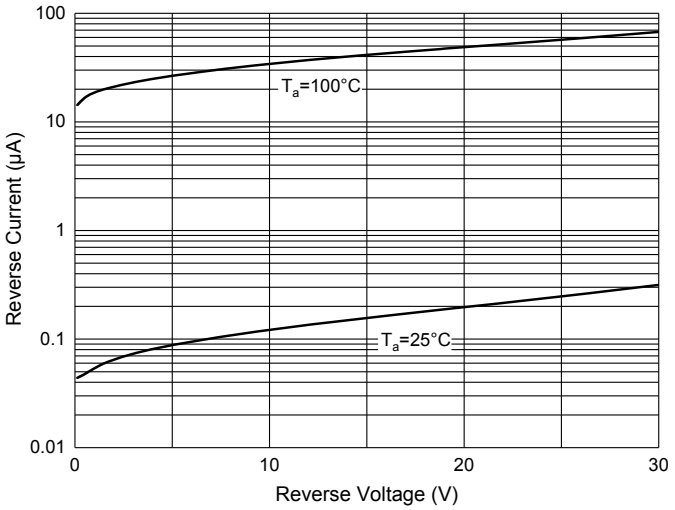


Fig. 3 - Capacitance Characteristics

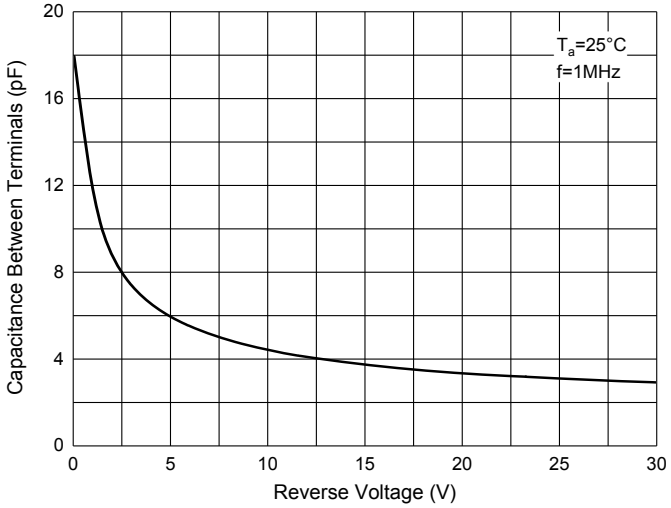
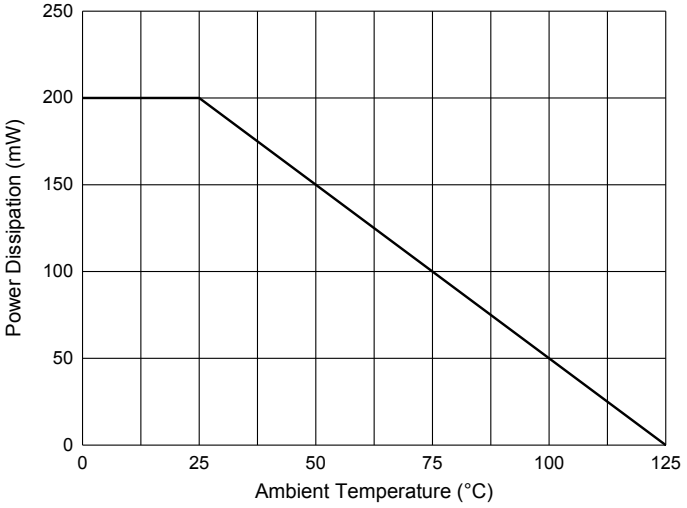


Fig. 4 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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