



Micro Commercial Components



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BAR43/A/C/S

200mW SCHOTTKY DIODE

Features

- Low Current Leakage.
- Surface Mount SOT-23 Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

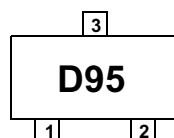
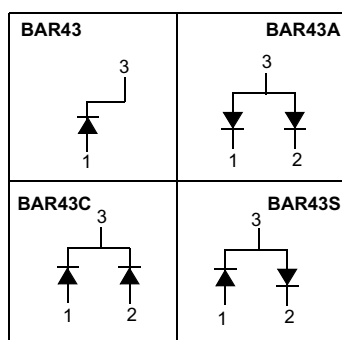
Maximum Ratings

Working Peak Reverse Voltage	V_R	30V
Average Rectified Forward Current	$I_{F(AV)}$	200mA
Total Power Dissipation @ $T_A = 25^\circ\text{C}$	P_D	200mW
Storage Temperature Range	T_{stg}	-55°C to 150°C
Operating Junction Temperature	T_j	150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

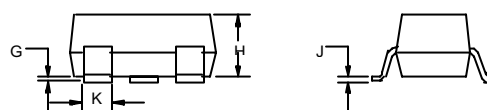
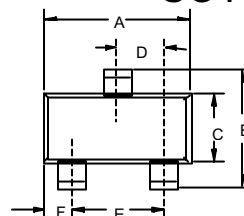
Parameter	Symbol	Max.	Notes
Forward Voltage	V_F	0.33V 0.45V 0.80V	$I_F = 2\text{mA}$ $I_F = 15\text{mA}$ $I_F = 100\text{mA}$
Reverse Current	I_R	$0.5\mu\text{A}$	$V_R = 25\text{V}$
Reverse Breakdown Voltage	$V_{(BR)}$	30V(min)	$I_R = 100\mu\text{A}$
Reverse Recovery Time	t_{rr}	5nS	$I_F = I_R = 10\text{mA}$; $I_{rr} = 1\text{mA}$ $R_L = 100\Omega$

Schematic Diagram and Marking



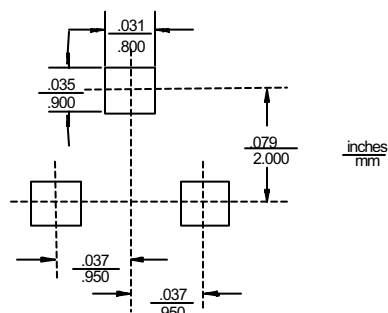
MARKING
BAR43 D95 BAR43A DB1
BAR43C DB2 BAR43S DA5

SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout



Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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