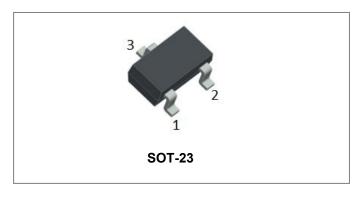




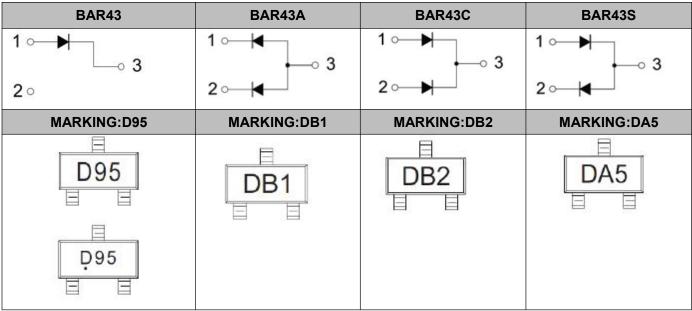


BAR43/A/C/S SCHOTTKY BARRIER DIODE



Features

- Low Current Leakage
- For General Purpose Switching Applications
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Solid dot = Green molding compound device, if none, the normal device.

Maximum Ratings@T_A=25°C unless otherwise specified

Parameter	Symbol	Limit	Units
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	30	V
RMS Reverse Voltage	V _{R(RMS)}	21	V
Forward Current	lF	200	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	0.75	А
Power Dissipation	P _D	200	mW
Thermal Resistance from Junction to Ambient	R _{OJA}	500	°C/W
Junction Temperature	Tj	125	°C
Storage Temperature	T _{stg}	-55~+150	°C

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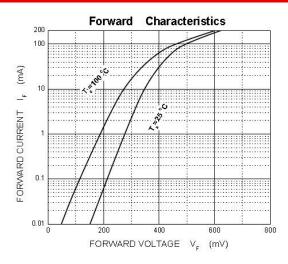


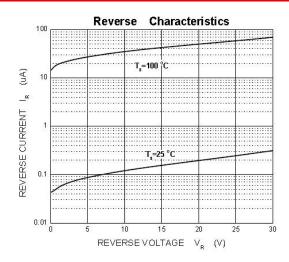
Electrical Characteristics @TA=25°C unless otherwise specified

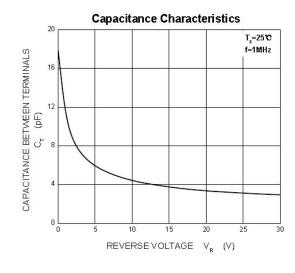
Parameter	Symbol	Test conditions	Min	Max	Units
Reverse breakdown voltage*	V _(BR)	I _R =100μA	30	-	V
Reverse voltage leakage current*	I _{R2}	V _R =25V	-	0.5	μA
Forward voltage*	V _F	I _F =2mA	0.26	0.33	mV
		I _F =15mA	-	0.45]
		I _F =100mA	-	0.8	
Reverse recovery time	Tm	$I_F = I_R = 10 \text{mA}, \text{ Irr} = 0.1 \times I_R, R_L = 100 \Omega$	-	5	ns

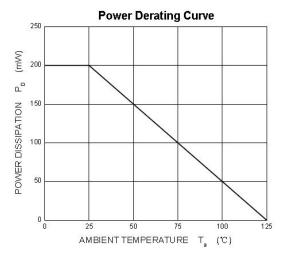
^{*} Pulse width < 300 μ s, duty cycle < 2%

Ratings and Characteristics Curves









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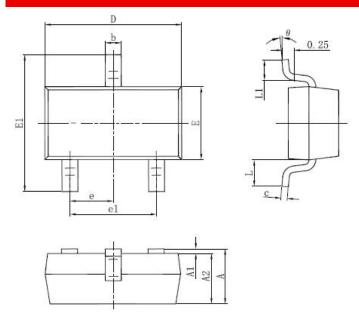


Ordering Information

Device	Package	Shipping	
BAR43/A/C/S	SOT-23(Pb-Free)	3000pcs / reel	

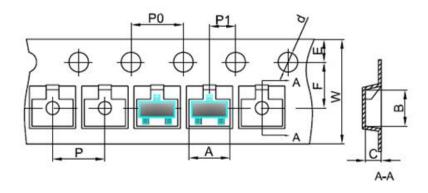
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Mechanical Dimensions SOT-23



OVMDOL	Millimeters		Inches		
SYMBOL	MIN.	MAX.	MIN.	MAX.	
Α	0.890	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.076	0.170	0.003	0.007	
D	2.650	3.050	0.104	0.120	
Е	1.190	1.400	0.047	0.055	
E1	2.100	2.550	0.083	0.100	
e	0.950 TYP.		0.037 TYP.		
e1	1.780	2.050	0.070	0.081	
L	0.550 REF.		0.022 REF.		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

Carrier Tape Specification SOT-23



SYMBOL	Millimeters			
STWIBOL	Min.	Max.		
Α	3.05	3.25		
В	2.67	2.87		
С	1.12	1.32		
d	1.40	1.60		
E	1.65	1.85		
F	3.40	3.60		
P	3.90	4.10		
P0	3.90	4.10		
P1	1.90	2.10		
W	7.90	8.30		

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