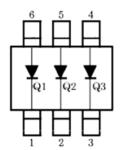
Schottky Barrier Diode





Features:

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- · Fast Switching
- Low Leakage Current
- · Three Fully Isolated Schottky Diode
- · Also Available in Lead Free Version





SOT-363

Applications:

High speed switching

Maximum Rating @ TA = 25°C unless otherwise specified

Parameter	Symbol	SD103ATW-7-F	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage	V _{RRM} V _{RWM} V _R	40	V
RMS reverse voltage	V _{R(RMS)}	28	٧
Forward continuous current (Max.)	I _F	350	mA
Average rectified current	Io	175	mA
Non-Repetitive peak forward surge current @t ≤ 10ms	I _{FSM}	1	А
Thermal resistance, junction to ambient air	$R_{\theta JA}$	500	°C/W
Power dissipation	P _D	200	mW
Junction and storage temperature	T _{j,} T _{stg}	-55 to +125	°C

Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse breakdown voltage	V _{(BR)R}	I _R = 100μA	40		-	V
Average reverse current	I _R	V _R = 10V V _R = 30V		0.2 0.4	2 5	μΑ

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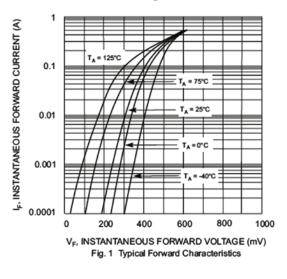


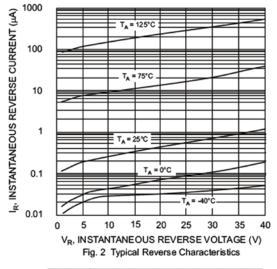
Schottky Barrier Diode



Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F	$I_F = 1mA$ $I_F = 5mA$ $I_F = 20mA$ $I_F = 100mA$	-	0.27 0.32 0.36 0.44	0.37 0.5	V
Total capacitance	C _T	V _R = 0V, f = 1MHz	-	50	-	pF
Reverse recovery time	t _{rr}	$I_F = I_R = 200 \text{mA}, I_{rr} = 0.1 \text{*IR}$ $R_L = 100 \Omega$	-	10	-	ns

Typical Characteristics @ TA = 25°C unless otherwise specified





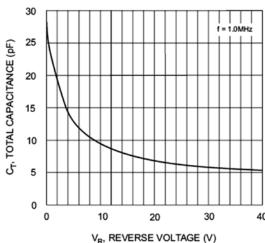


Fig. 3 Typ. Total Capacitance vs. Reverse Voltage

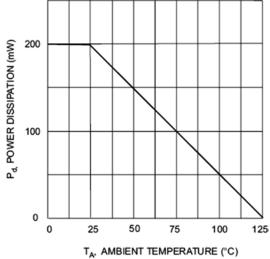


Fig. 4 Power Derating Curve

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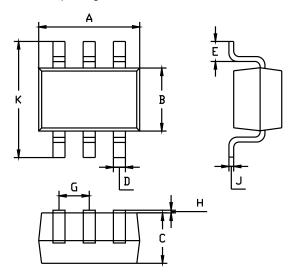


Schottky Barrier Diode



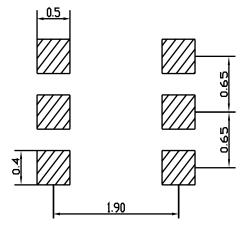
Package Outline

Plastic surface mounted package



SOT-363				
Dim	Min	Max		
Α	1.8	2.2		
В	1.15	1.35		
С	1 Typical			
D	0.10	0.30		
E	0.25	0.40		
G	0.65 Typical			
Н	0.02	0.10		
J 0	.1Typical			
K	2.1	2.3		
All Dimensions in mm				

Soldering Footprint



Dimensions: Millimetres

Package Information

Device	Package	Shipping
SD103ATW-7-F	SOT-363	3,000/Tape & Reel

Part Number Table

Description	Part Number		
Schottky Barrier Diode	SD103ATW-7-F		

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