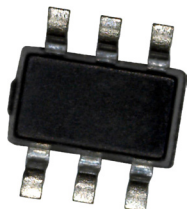


Schottky Barrier Diode

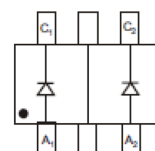
Surface Mount

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Features

- Low forward voltage drop.
- Fast switching.
- Ultra-small surface mount package.
- PN Junction guard ring for transient and ESD protection.
- Available in lead free version.



Package Code
SOT-363

Applications

High speed switching application.

Max. Rating @ TA = 25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	VRRM VRWM VR	30	V
Forward Continuous Current	IF	200	mA
Repetitive Peak Forward Current	IFRM	300	mA
Forward Surge Current @t<1.0s	IFSM	0.6	A
Power Dissipation	PD	200	mW
Thermal Resistance, Junction to Ambient Air	RθJA	625	°C/W
Operating and Storage Temperature	Tj, TSTG	-65 to +125	°C

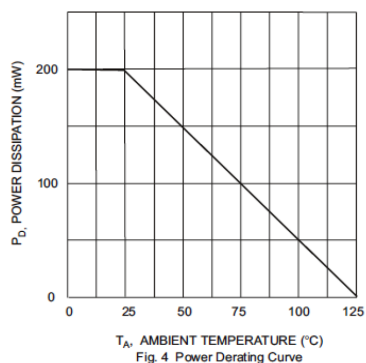
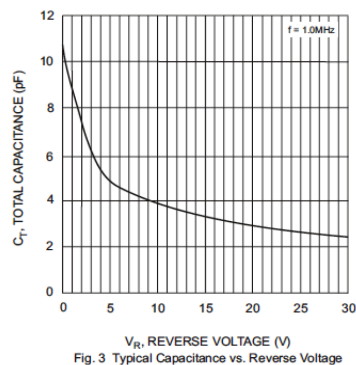
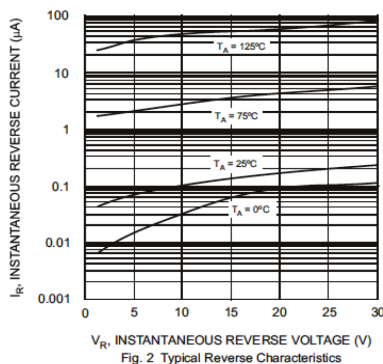
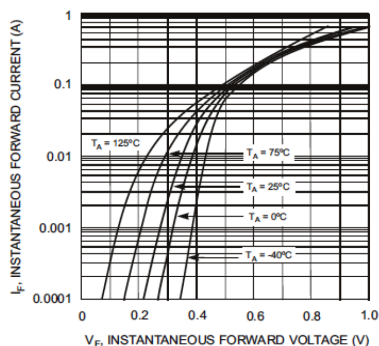
Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse Breakdown Voltage	V(BR)	IR = 100μA	30	-	V
Average Reverse Current	IR	VR = 25V	-	2	μA
Forward Voltage	VF	IF = 0.1mA	-	0.24	V
		IF = 1mA	-	0.32	
		IF = 10mA	-	0.4	
		IF = 30mA	-	0.5	
		IF = 100mA	-	1	
Total Capacitance	CT	VR = 1V, f = 1MHz	-	10	pF
Reverse Recovery Time	trr	IF = 10mA through IR = 10mA to IR = 0.1mA, RL = 100Ω	-	5	ns

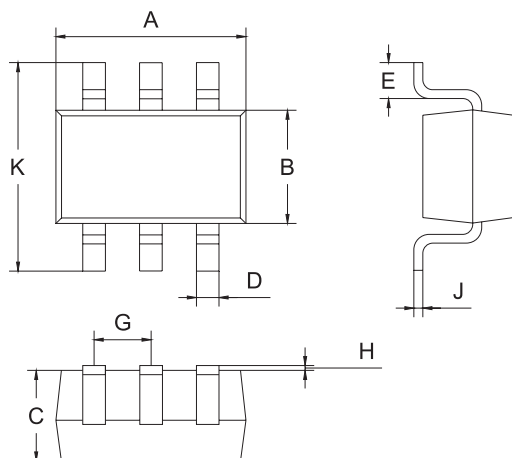
Schottky Barrier Diode Surface Mount

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Ratings and Characteristic Curves @ $T_A = 25^\circ\text{C}$ unless otherwise specified



Package Outline Dimensions



SOT-363		
Dim.	Min.	Max.
A	2	2.2
B	1.15	1.35
C	0.85	1.05
D	0.15	0.35
E	0.25	0.4
G	0.6	0.7
H	0.02	0.1
J	0.05	0.15
K	2.2	2.4

Dimensions : Millimetres

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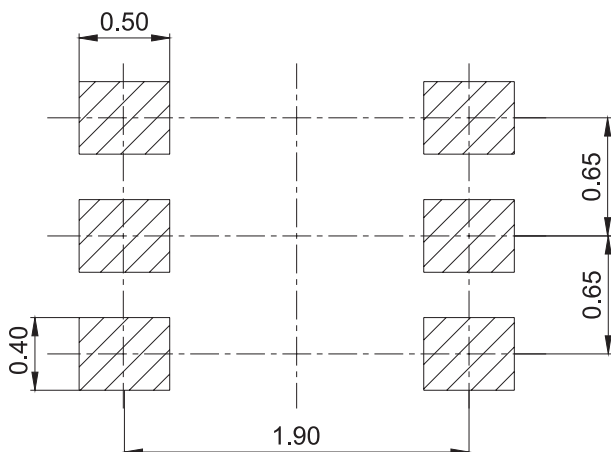
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Schottky Barrier Diode

Surface Mount

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Soldering Footprint



Part Number Table

Description	Part Number
Schottky Barrier Diode, 100mA, 30V, SOT-363	BAT54JW-7-F

Dimensions : Millimetres

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