

SCHOTTKY BARRIER DIODE

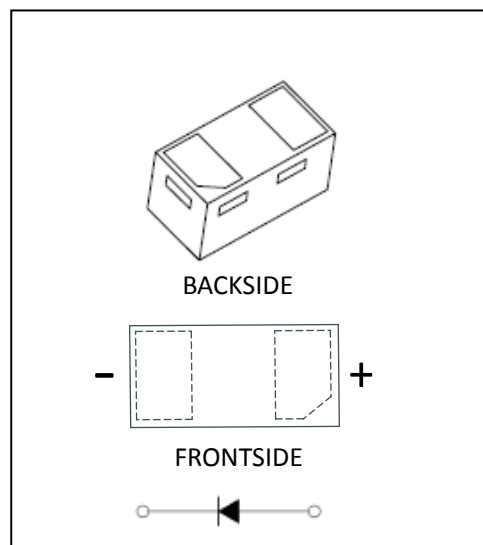
FEATURE

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

APPLICATION

- High speed switching for detection
- For portable equipment:(i.e. Mobile phone,MP3, MD,CD-ROM, DVD-ROM, Note book PC, etc.)

MARKING



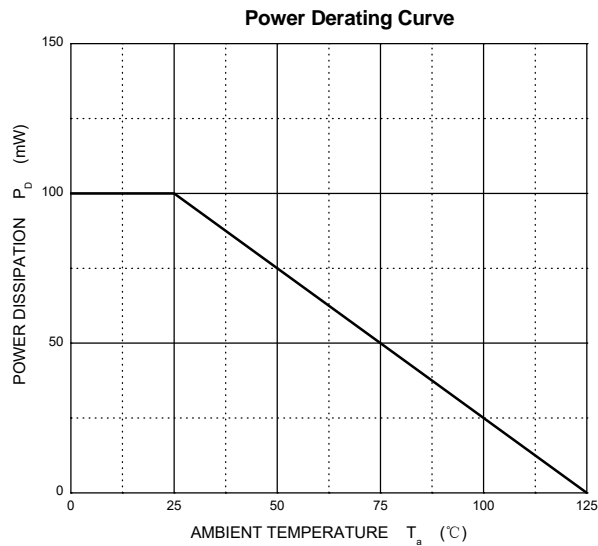
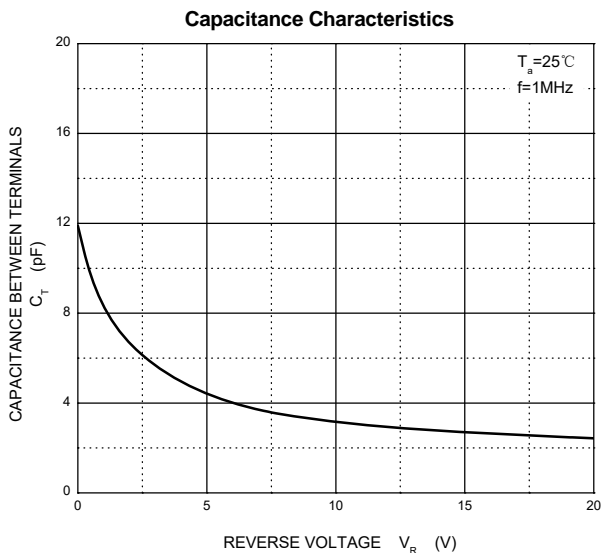
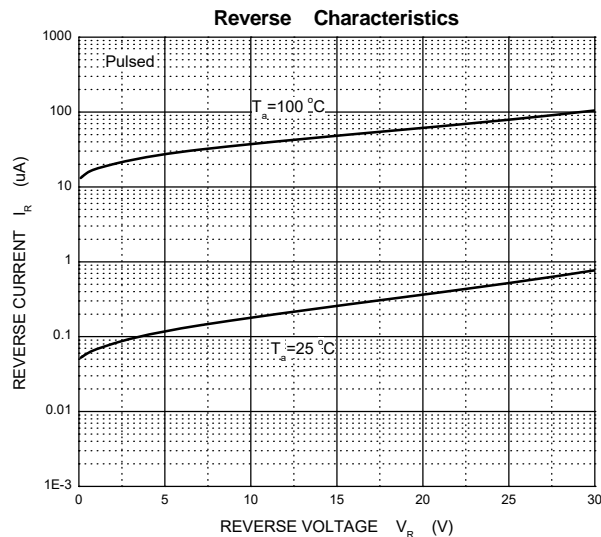
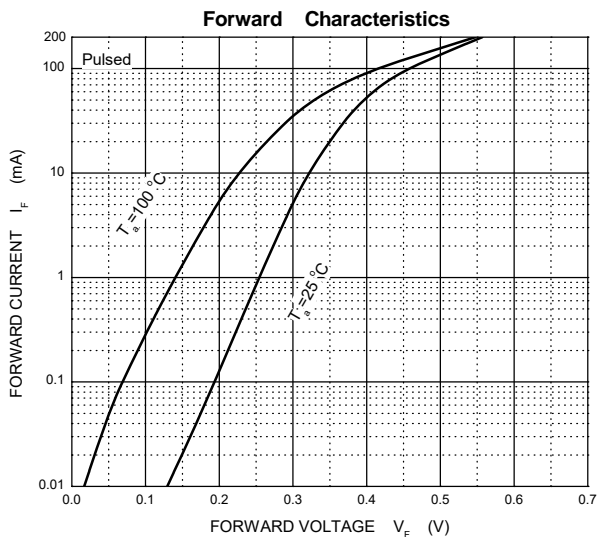
MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

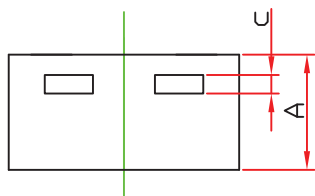
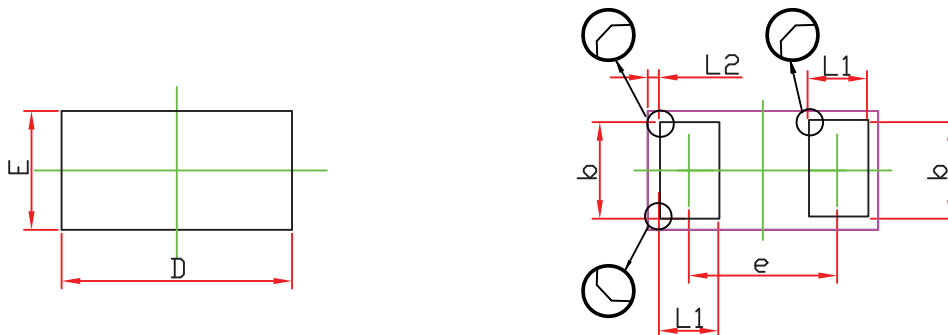
Symbol	Parameter	Limit	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	30	V
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	21	V
I_O	Average Rectified Output Current	100	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current@ t=8.3ms	0.5	A
P_d	Power Dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	1000	$^{\circ}\text{C}/\text{W}$
T_J	Operating Junction Temperature Range	-40 ~ +125	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25^{\circ}\text{C}$ unless otherwise specified)

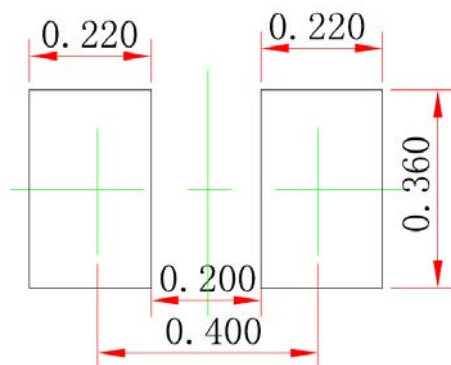
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=50\mu\text{A}$	30			V
Reverse current	I_R	$V_R=10\text{V}$			10	μA
		$V_R=30\text{V}$			50	μA
Forward voltage	V_F	$I_F=10\text{mA}$			0.38	V
		$I_F=100\text{mA}$			0.60	V

Typical Characteristics



DFN0603 Package Outline Dimensions


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.270	0.340	0.010	0.013
D	0.550	0.670	0.021	0.026
E	0.250	0.370	0.009	0.015
b	0.200	0.350	0.008	0.014
c	0.050 REF.		0.002 REF.	
e	0.350	0.435	0.014	0.017
L1	0.125	0.230	0.005	0.009
L2	0.030 REF.		0.001 REF.	

Suggested Pad Layout


Note:
 1. Controlling dimension: in millimeters.
 2. General tolerance: ± 0.050 mm.
 3. The pad layout is for reference purposes only.