

M·C·C·

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DL5711

Features

- Fast Switching Speed
- High Reverse Breakdown Voltage
- Low Forward Voltage Drop
- For General Purpose Application

Schottky Barrier Switching Diode

Mechanical Data

- Case: Minimelf, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.05 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

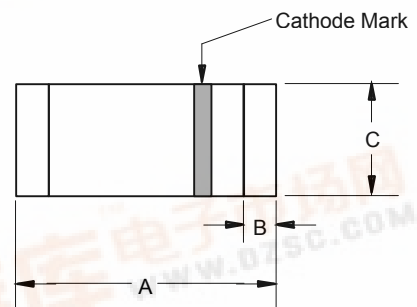
Characteristic	Symbol	Value	Unit
Peak Reverse Voltage	V_{RRM}	60	V
Forward Continuous Current(Note1)	I_{FM}	15	mA
Maximum Single cycle surge 10us square wave	I_{FSM}	2.0	A
Power Dissipation(Note 1)	P_d	400	mW
Thermal Resistance(Note 1)	$R_{\theta JA}$	0.3	K/mW
Operation/Storage Temp. Range	T_j, T_{STG}	-55 to 150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Min	Max	Unit	Test Cond.
Reverse Breakdown Volt.	$V_{(BR)R}$	70	-----	V	$I_R=10\mu A$
Reverse Leakage Current.	I_R	-----	200	nA	$V_R=50V$
Forward Volt. Drop	V_F	-----	0.41 1	V	$I_F=1.0mA$ $I_F=15mA$
Junction Capacitance	C_j	-----	2.0	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	t_{rr}	-----	1.0	ns	$I_F=I_R=5mA,$ $I_{rr}=0.1 \times I_R$ $R_L=100\Omega$

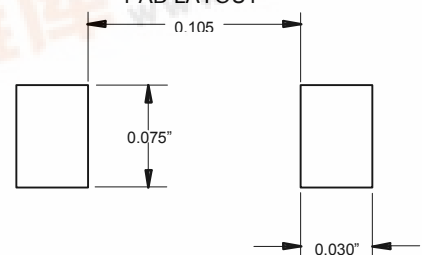
Note: 1. Valid provided that electrodes are kept at ambient temperature

MINIMELF



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.134	.142	3.40	3.60	
B	.008	.016	0.20	0.40	
C	.055	.059	1.40	1.50	

SUGGESTED SOLDER PAD LAYOUT



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Fig.1 Typical variation of fwd. current vs forward. voltage for primary conduction through the Schottky barrier

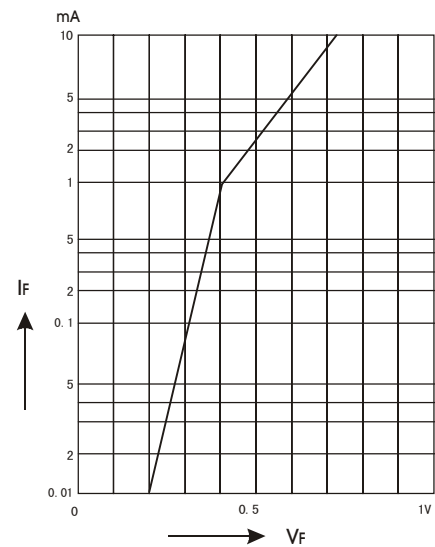


Fig.2 Typical forward conduction curve of combination Schottky barrier and PN junction guard ring

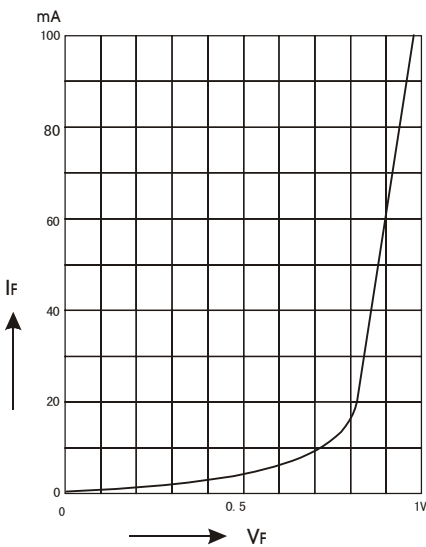


Fig.3 Typical variation of reverse current at various temperatures

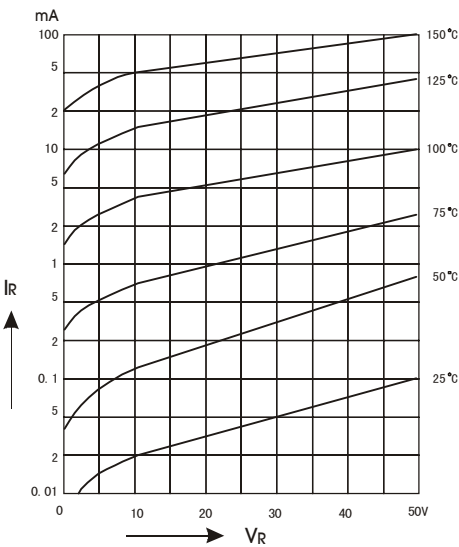


Fig.4 Typical capacitance curve as a function of reverse voltage

