



Micro Commercial Components



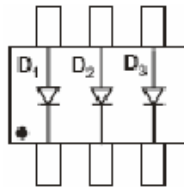
Micro Commercial Components
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SD103ATW

200mW SCHOTTKY BARRIER DIODE

Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Leakage Current
- Three Fully Isolated Schottky Diodes
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Marking: KLL
- Moisture Sensitivity Level 1



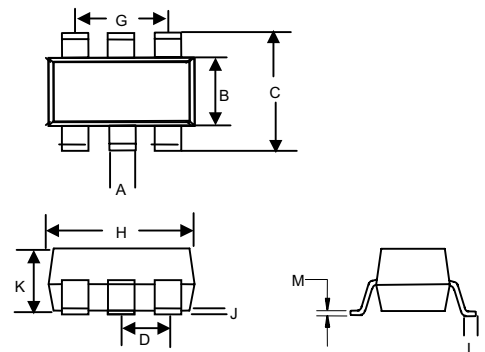
Maximum Ratings

Symbol	Rating	Rating	Unit
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_{FM}	Forward Continuous Current(note.1)	350	mA
I_O	Average Rectified Output Current(note.1)	175	mA
I_{FSM}	Peak Forward Surge Current @ $t \leq 10ms$	1.0	A
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	500	$^{\circ}C/W$
P_D	Power dissipation	200	mW
T_J	Junction Temperature	125	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +125	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	40V	---	$I_R = 100 \mu A$ (note.2)
I_R	Reverse Voltage Leakage Current(note.2)	---	2 μA 5 μA	$V_R = 10V$ $V_R = 30V$
V_F	Forward Voltage(note.2)	----	0.27V 0.32V 0.37V 0.50V	$I_F = 1.0mA$ $I_F = 5.0mA$ $I_F = 20mA$ $I_F = 100mA$
C_T	Total Capacitance	---	50pF	$V_R = 0V, f = 1MHz$
t_{rr}	Reverse Recovery Time	---	10.0ns	$I_F = I_R = 200mA,$ $I_{rr} = 0.1 * I_R, R_L = 100 \Omega$

SOT-363



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	

- Notes: 1. This is the maximum rating of single Diode (D_1 or D_2 or D_3). In the case of using two or three diodes, the maximum ratings per diode are 75% of the ratings for single diode operation.
2. Short duration test pulse used to minimize self-heating effect.

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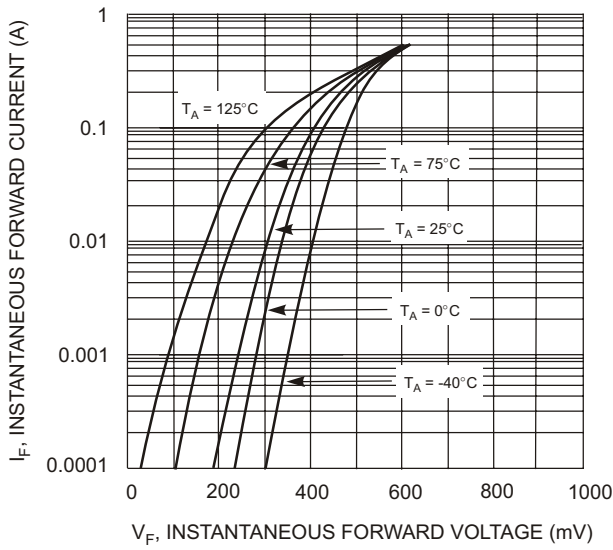


Fig. 1 Typical Forward Characteristics

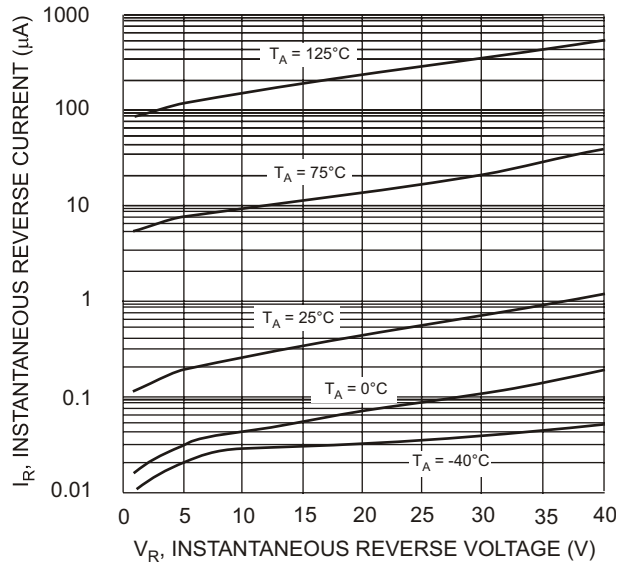


Fig. 2 Typical Reverse Characteristics

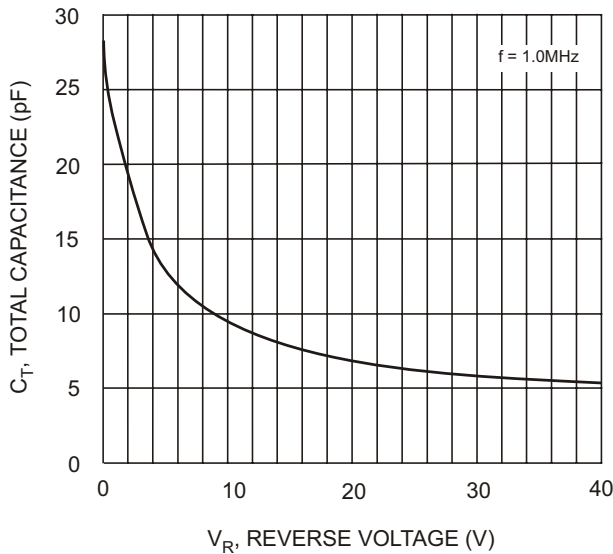


Fig. 3 Typ. Total Capacitance vs. Reverse Voltage

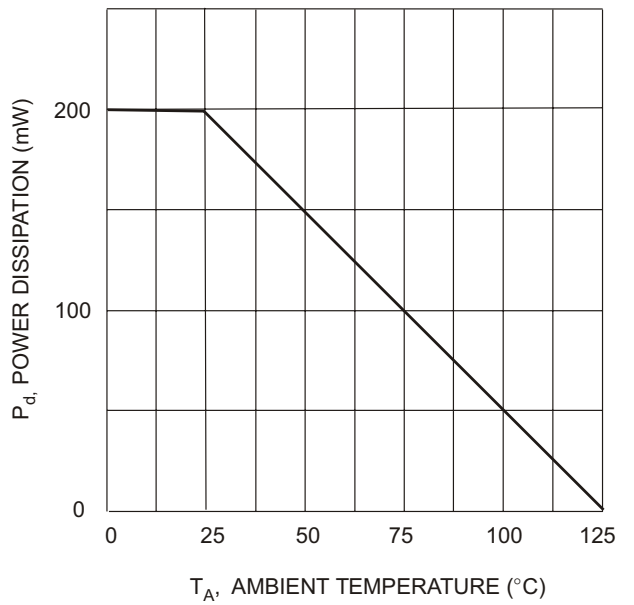


Fig. 4 Power Derating Curve



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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