Micro Commercial Components
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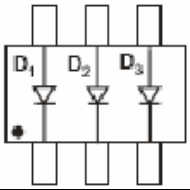
SD103ATW

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
- Case Material:Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 1
- Marking: KLL



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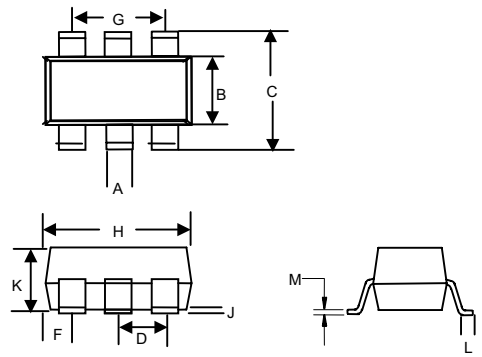

DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
A	.004	.012	0.10	0.30	
B	.045	.053	1.15	1.35	
C	.079	.087	2.00	2.20	
D	.026		0.65Nominal		
F	.012	.016	0.30	0.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.039	0.90	1.00	
L	.010	.016	0.25	0.40	
M	.004	.016	0.10	0.25	

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<=10ms	1.0	A
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	500	℃/W
P_D	Power dissipation	200	mW
T_J	Junction Temperature	125	℃
T_{STG}	Storage Temperature	-55 to +125	℃

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	40V	---	I_R=100μA(note.2)
I_R	Reverse Voltage Leakage Current(note.2)	---	2μA 5μA	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=100Ω

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.

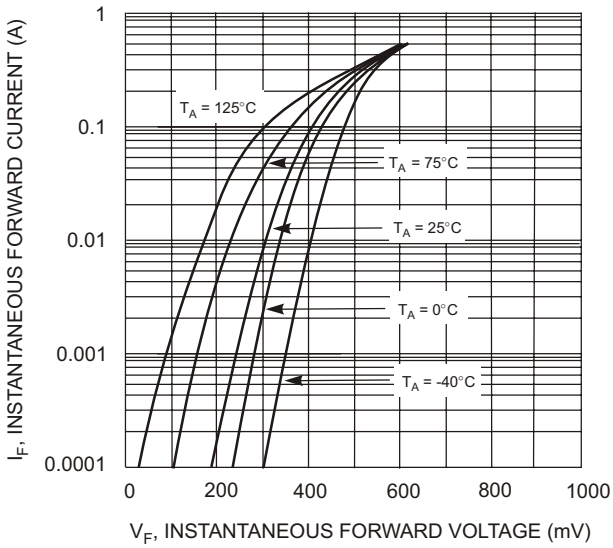

Fig. 1 Typical Forward Characteristics

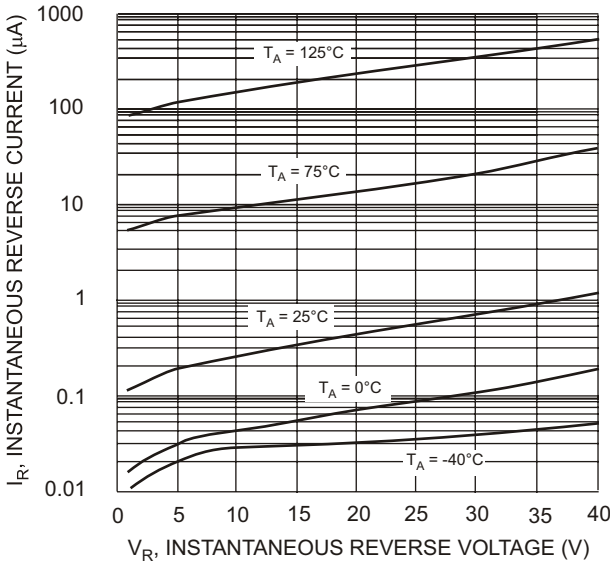

Fig. 2 Typical Reverse Characteristics

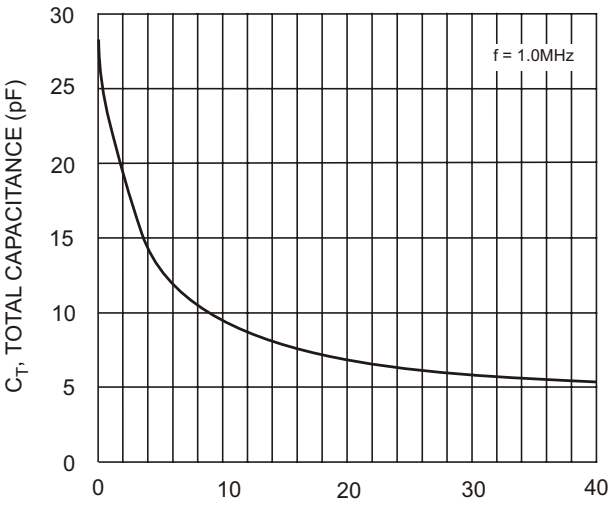

Fig. 3 Typ. Total Capacitance vs. Reverse Voltage

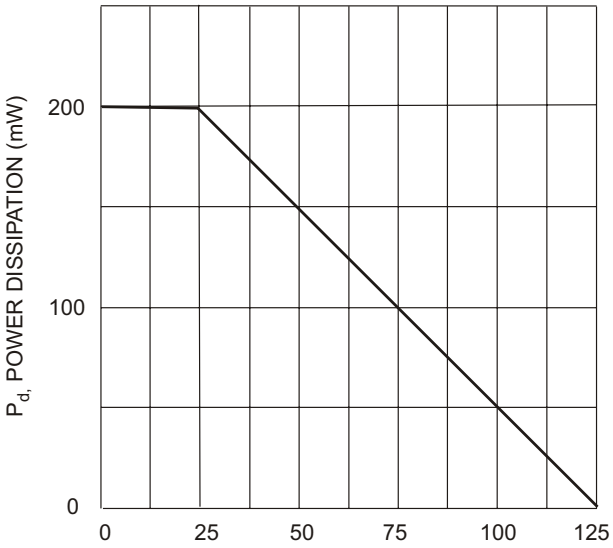

Fig. 4 Power Derating Curve

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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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