



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components

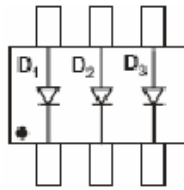


Micro Commercial Components
 20736 Marilla Street Chatsworth
 CA 91311
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SD103ATW

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

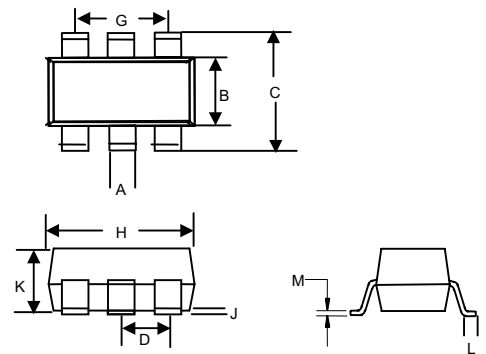


200mW
SCHOTTKY BARRIER
DIODE

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	40	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
$V_{R(RMS)}$	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	$^{\circ}C$

SOT-363



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	$I_F = I_R = 200mA,$ $I_{rr} = 0.1 * I_R, R_L = 100 \Omega$

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.

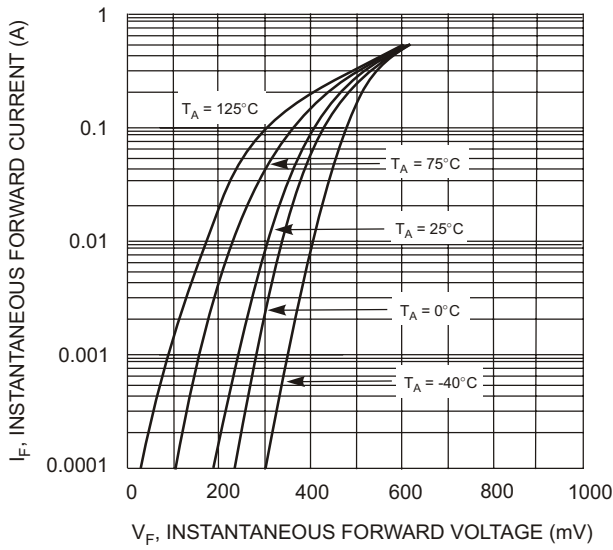


Fig. 1 Typical Forward Characteristics

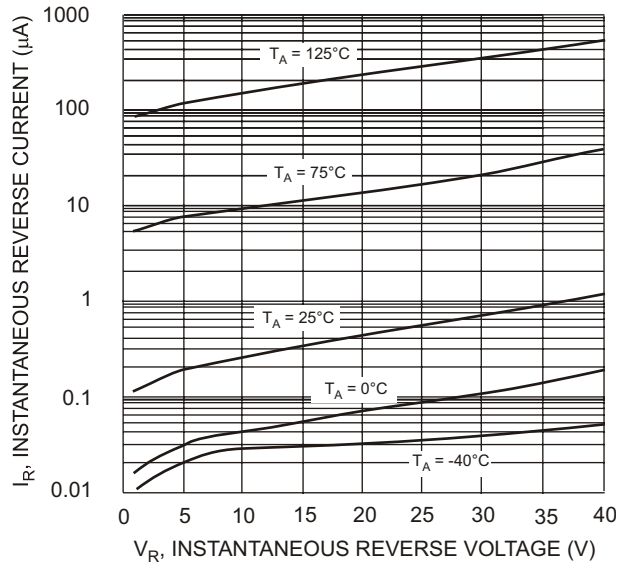


Fig. 2 Typical Reverse Characteristics

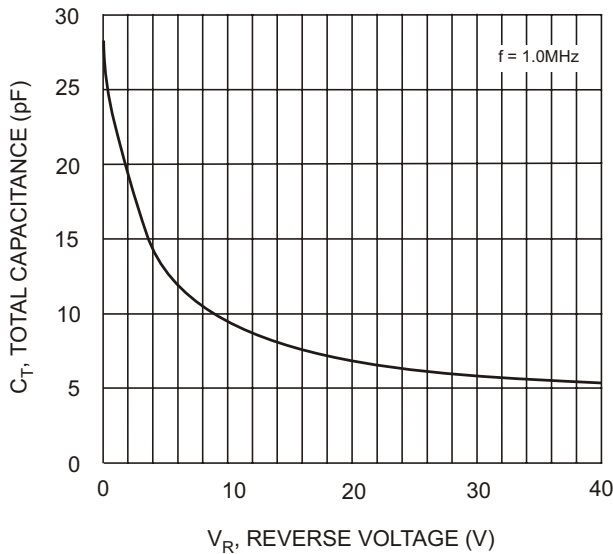


Fig. 3 Typ. Total Capacitance vs. Reverse Voltage

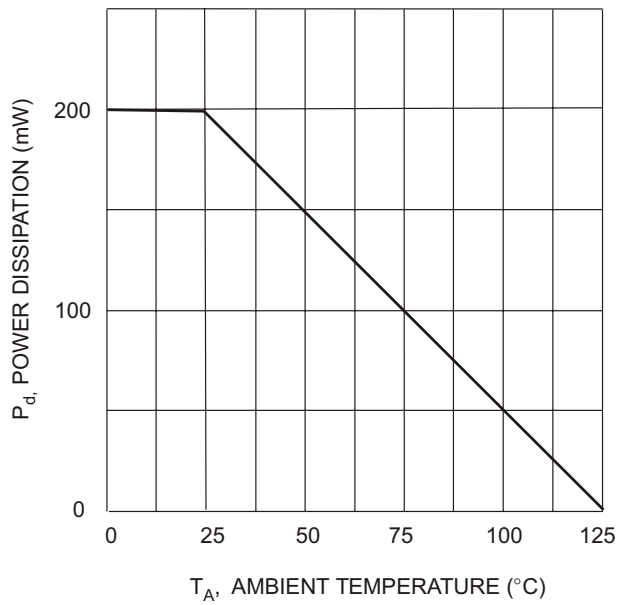


Fig. 4 Power Derating Curve



Micro Commercial Components

Ordering Information :

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

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