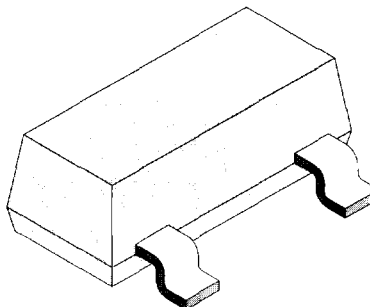


Silicon PIN Diodes

Features

- Wide frequency range 10 MHz to 1 GHz



Applications

Current controlled HF resistance in adjustable attenuators

94 8550

Absolute Maximum Ratings

$T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Reverse voltage			V_R	30	V
Forward current			I_F	50	mA
Junction temperature			T_j	125	$^\circ\text{C}$
Storage temperature range			T_{stg}	-55...+125	$^\circ\text{C}$

Maximum Thermal Resistance

$T_j = 25^\circ\text{C}$

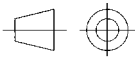
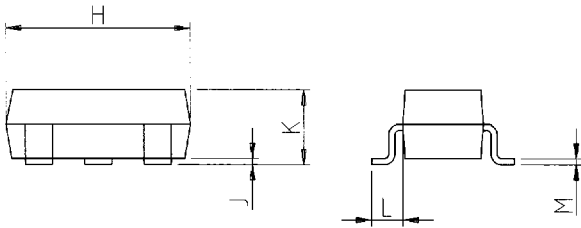
Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	on PC board 50mmx50mmx1.6mm	R_{thJA}	500	K/W

Electrical Characteristics

$T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=20\text{mA}$		V_F			1	V
Reverse current	$V_R=30\text{V}$		I_R			50	nA
Diode capacitance	$f=100\text{MHz}$, $V_R=0$		C_D			0.5	pF
Differential forward re- sistance	$f=100\text{MHz}$, $I_F=1.5\text{mA}$		r_f			50	Ω
Reverse impedance	$f=100\text{MHz}$, $V_R=0$		z_r	5			k Ω
Minority carrier lifetime	$I_F=10\text{mA}$, $I_R=10\text{mA}$		τ		4		μs

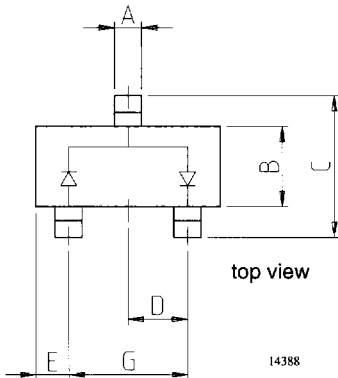
Dimensions in mm



technical drawings
according to DIN
specifications

14384

SOT-23		
Dim	Min	Max
A	0.37	0.50
B	1.19	1.40
C	2.10	2.50
D	0.89	1.05
E	0.45	0.61
G	1.78	2.05
H	2.79	3.05
J	0.013	0.15
K	0.89	1.10
L	0.45	0.61
M	0.076	0.130
All Dimensions in mm		



top view

14388