WEITRON

WSD450F

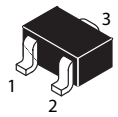
Surface Mount Schottky Barrier Diodes

Lead(Pb)-Free

SMALL SIGNAL
SCHOTTKY DIODES
100m AMPERES
40 VOLTS

Features:
*Small mold type.
*Low I_R
*High reliability.

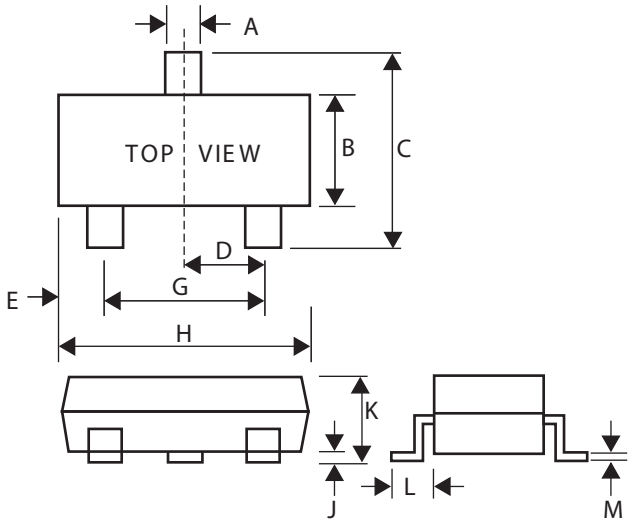
Construction:
Silicon epitaxial planer



SOT-323(SC-70)

SOT-323 Outline Demensions

Unit:mm



SOT-323		
Dim	**Min**	**Max**
A	0.30	0.40
B	1.15	1.35
C	2.00	2.40
D	-	0.65
E	0.30	0.40
G	1.20	1.40
H	1.80	2.20
J	0.00	0.10
K	0.80	1.00
L	0.42	0.53
M	0.10	0.25

MaximumRatings (T_a=25°C Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Reverse Voltage (repetitive peak)	V_{RM}	45	Volts
Reverse Voltage (DC)	V_R	40	mA
Average rectified forward current	I_O	100	mA
Forward Current surge peak (60Hz, 1cyc)	I_{FSM}	1	A
Operating Junction Temperature Range	T_J	125	°C
Storage Temperature Range	T_{stg}	-40 to +125	°C

ElectricalCharacteristics (T_A=25°C Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage I_F=10mA	V_F	-	-	0.45	Volts
Capacitance between terminals (V_R=10V, f=1.0MHz)	C_T	-	6.0	-	pF
Reverse currect (V_R=10V)	I_R	-	-	1.0	μAdc

DeviceMarking

Item	Marking	EqivalentCir cuitdiagram
WSD450F	B4 , KL5	

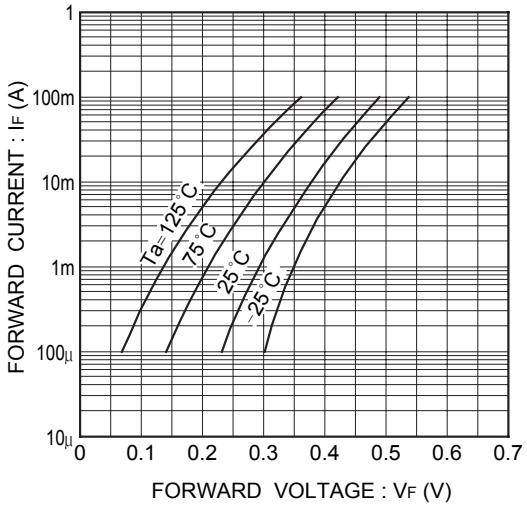


Fig. 1 Forward characteristics

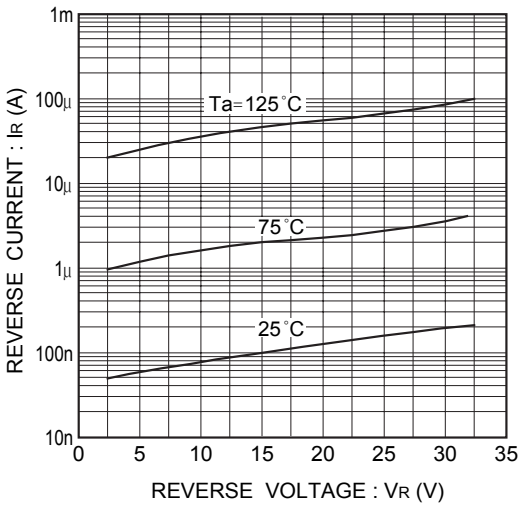


Fig. 2 Reverse characteristics

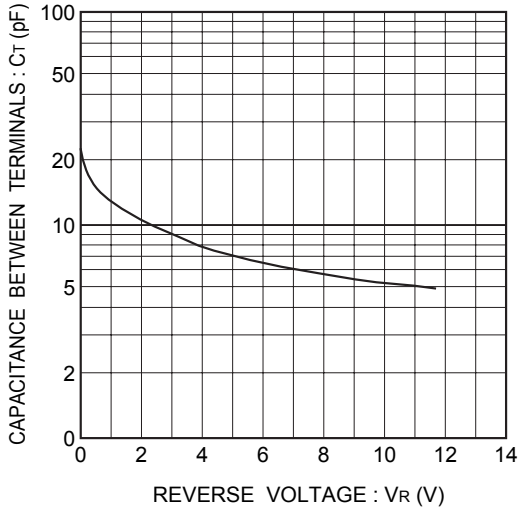


Fig. 3 Capacitance between terminals characteristics

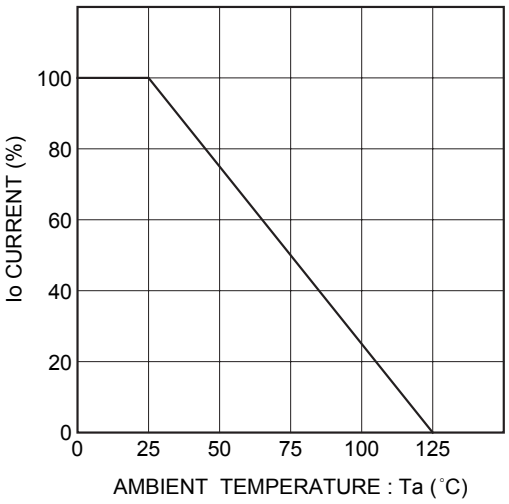


Fig. 4 Derating curve (mounting on glass epoxy PCBs)