WEITRON

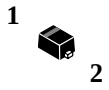
WSD751D

Surface Mount Schottky Barrier Diodes

Pb Lead(Pb)-Free

*** Halogen Free**

SMALL SIGNAL SCHOTTKY DIODES 30m AMPERES 40 VOLTS



SOD-923

Feature:

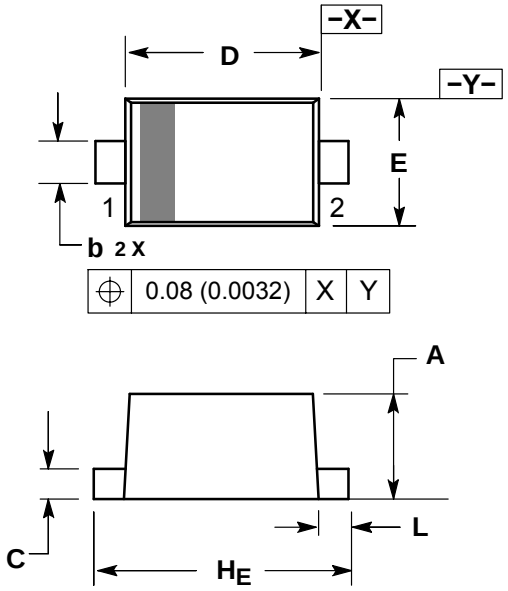
* Slicon Epitaxial Planer
* Low Forward Voltage and Low Reverse Current
* High Reliability
* Schottky Barrier Diodes Encapsulated in a SOD-923 Package

Description:

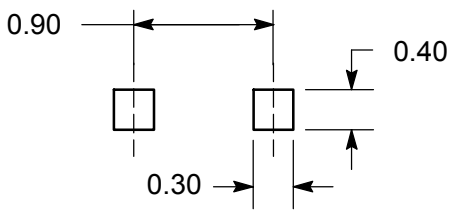
These schottky barrier diodes are designed for high speed switching applications circuit protection, and voltage clamping. Extremely low forward voltage reduces conduction loss. Miniature surface mount package is excellent for hand held and portable applications where space is limited.

SOD-923 Outline Dimensions

Unit:mm



MILLIMETERS			
DIM	**MIN**	**NOM**	**MAX**
A	0.34	0.39	0.43
b	0.15	0.20	0.25
c	0.07	0.12	0.17
D	0.75	0.80	0.85
E	0.55	0.60	0.65
H_E	0.95	1.00	1.05
L	0.05	0.10	0.15



SOLDERING FOOTPRINT

Maximum Ratings (T_A=25˚C Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Repetitve Peak Reverse Voltage	V_{RM}	40	V
DC Reverse Voltage	V_R	30	V
Average Rectifier Forward Current	I_O	30	mA
Peak Forward Surge Current(1)	I_{FSM}	200	mA
Thermal Resistance, Junction to Ambient	$R\theta JA$	520	˚C/W
Power Dissipation	P_D	150	mW
Operation Junction Temperature Range	T_J	125	˚C
Storage Temperature Range	T_{stg}	-40 to +125	˚C

Electrical Characteristics (T_A=25˚C Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage I_F=1mA	V_F	-	-	0.37	V
Reverse Leakage V_R=30V	I_R	-	-	0.5	μA
Capacitance between terminals V_R=1V, f=1MHz	C_t	-	2	-	pF

Device Marking

Item	Marking	Eqivalent Circuit diagram
WSD751D	5	

Electrical Characteristic Curves (TA=25°C)

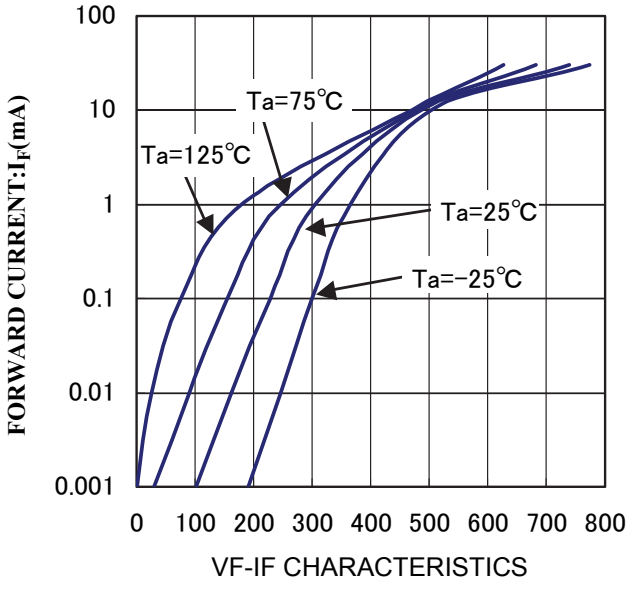


Fig.1 FORWARD VOLTAGE：VF(mV)

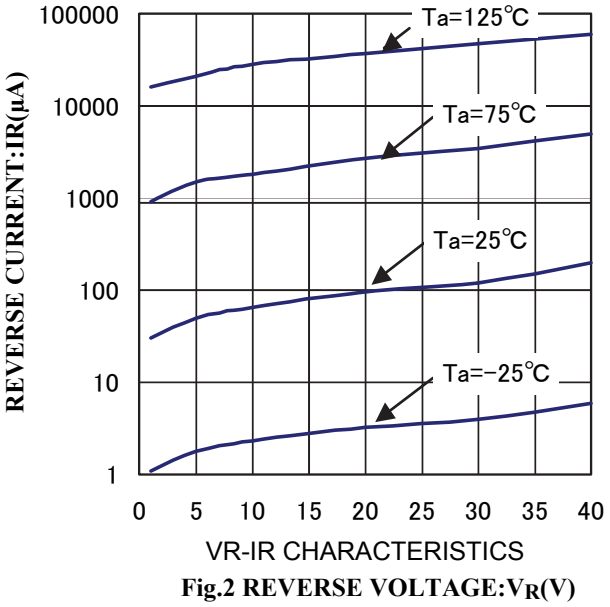


Fig.2 REVERSE VOLTAGE:VR(V)

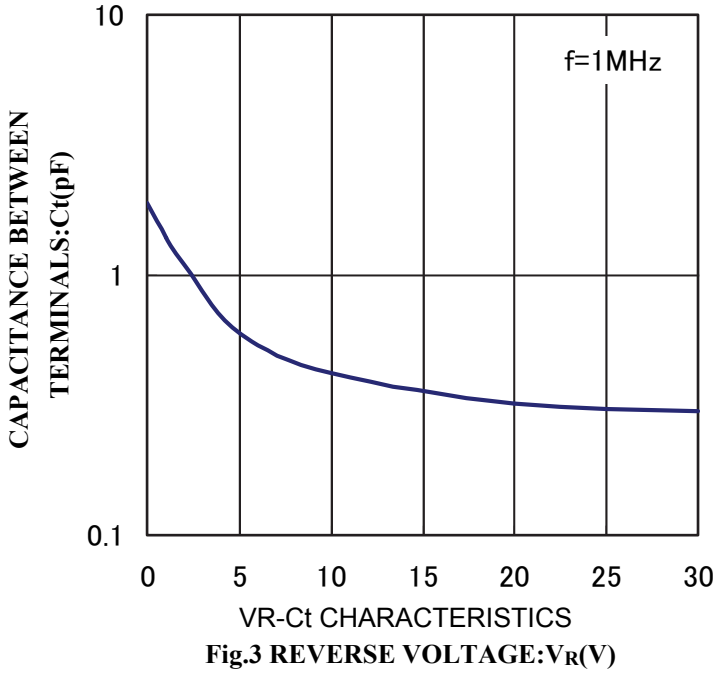


Fig.3 REVERSE VOLTAGE:VR(V)