

Surface Mount Schottky Barrier Diode

(Pb) Lead(Pb)-Free

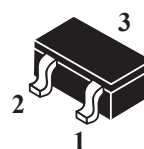
Features:

- *High Reliability
- *Fast Switching
- *PN Junction Guard Ring for Transient and ESD Protection

MECHANICAL DATA

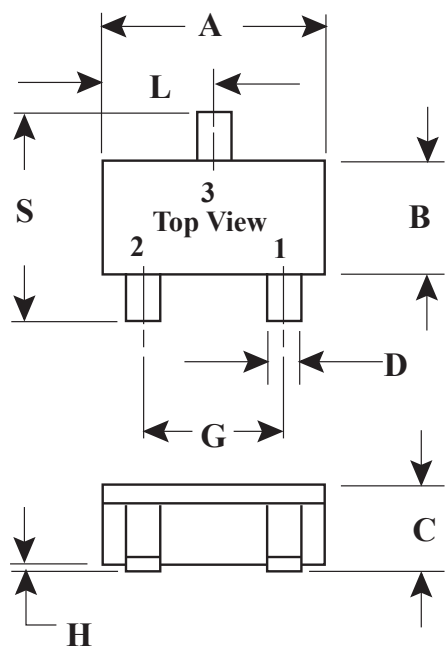
- *Case : SOT-346, Molded Plastic
- *Terminals : Solderable per MIL-STD-202, Method 208
- *Polarity : See Diagrams Below
- *Weight : 0.008 grams (approx.)
- *Mounting Position : Any

**SCHOTTKY BARRIER
RECTIFIERS
400mAMPERES
40VOLTS**



SC-59

SC-59 Outline Dimension



SC-59		
Dim	Min	Max
A	2.70	3.10
B	1.30	1.70
C	1.00	1.30
D	0.35	0.50
G	1.70	2.30
H	0.00	0.10
J	0.10	0.26
K	0.20	0.60
L	1.25	1.65
S	2.25	3.00
All Dimension in mm		

Maximum Ratings ($T_J=25^{\circ}\text{C}$ Unless otherwise noted)

Characteristic	Symbol	WSD495	Unit
Reverse Voltage	V_R	40	Volts
Average Rectifier ⁽¹⁾ Forward Current	$I_F(AV)$	400	mA
Peak Forward Surge Current ⁽²⁾	I_{FSM}	2.0	A
Operating Junction Temperature Range Storage Temperature Range	T_J T_{stg}	-40 to +125	$^{\circ}\text{C}$

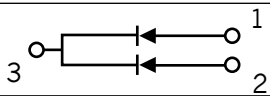
Electrical Characteristics ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

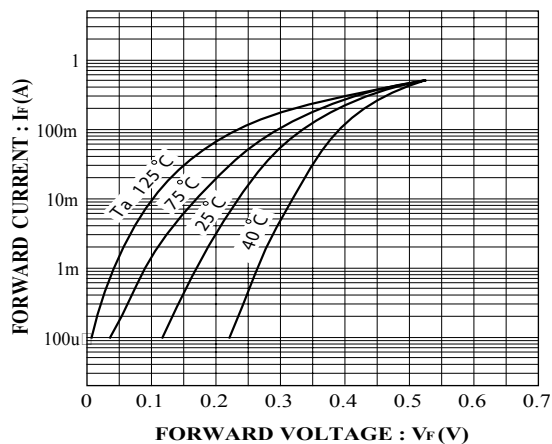
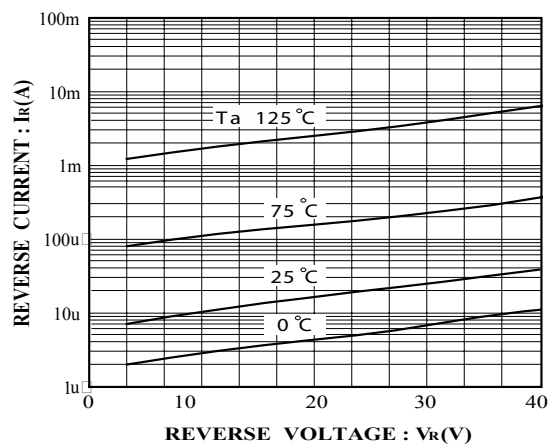
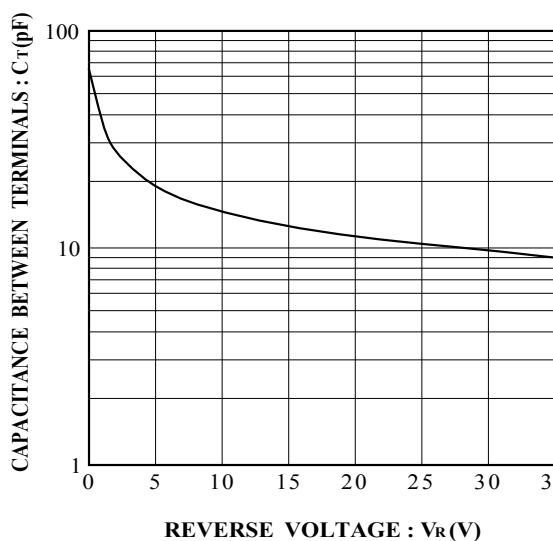
Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage ($I_R=100\mu\text{A}$)	$V_{(BR)R}$	40	-	Volts
Forward Voltage $I_F=10\text{mA}$ $I_F=200\text{mA}$	V_F	-	0.30 0.50	Volts
Reverse Leakage $V_R=10\text{V}$	I_R	-	70	μAdc

NOTE:

1. Mean Output Current Per Element: $I_F(AV)/2$
2. 60HE for 1 \varnothing

Device Marking

Item	Marking	Equivalent Circuit diagram
WSD495	04F	

Electrical characteristic curves ($T_a=25^\circ\text{C}$)**Fig.1 Forward characteristics****Fig.2 Reverse characteristics****Fig.3 Capacitance between terminals characteristics**