WEITRON

RLS245

Surface Mount High-Voltage Switching Diode

Lead(Pb)-Free

SWITCHING DIODES
200 m AMPERES
250 VOLTS

Features:

*Silicon Epitaxial Planner
*High Reliability
*V_{RM}=250V

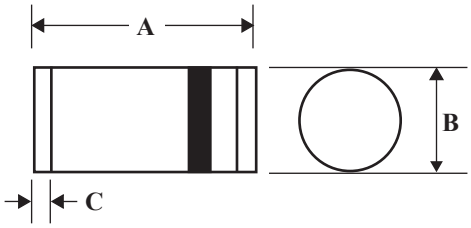
Mechanical Data:

*Case : MINI-MELF Glass Case (SOD-80)
*Weight : Approx 0.05 gram

MINI-MELF

MINI-MELF Outline Dimensions

Unit:mm



MINI MELF		
Dim	**Min**	**Max**
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50

Maximum Ratings (T_A=25 ℃ Unless otherwise noted)

Characteristic	Symbol	RLS245	Unit
Peak Reverse Voltage	V_{RM}	250	V
DC Reverse Voltage	V_R	220	V
Mean Rectifying Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current @ t=1s	I_{FSM}	1	A
Power Dissipation	P_d	300	mW
Thermal Resistance Junction to Ambient(1)	$R_{\theta JA}$	500	K/W
Operating and Strorage Temperature Range	T_J ,T_{STG}	-65 to +175	℃

Note:

1. Part Mounted on 50mm×50mm×1.6mm PC Board.

Electrical Characteristics (T_A=25℃ Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage I_F=200 mA	V_F	-	1.13	1.5	V
Reverse Current V_R=220V	IR	-	0.05	10	uA
Diode Capacitance V_R=0, f=1MHz	C_D	-	-	3	PF
Reverse Recovery Time I_F= I_R=20mA, R_L=50 Ω	Trr	-	-	75	nS

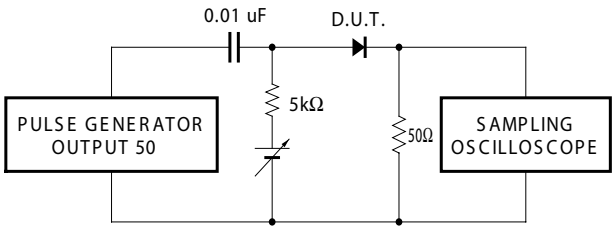


FIG.1 Reverse Recovery Time (trr) Measurement Circuit

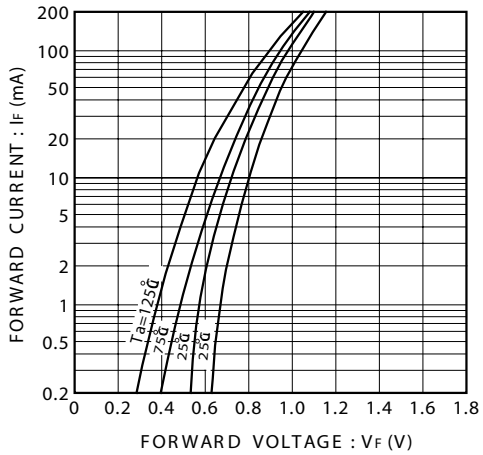


FIG. 2 Forward Characteristics

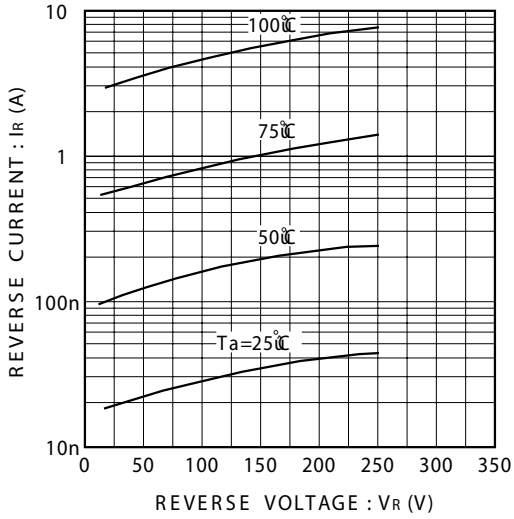


FIG. 3 Reverse Characteristics

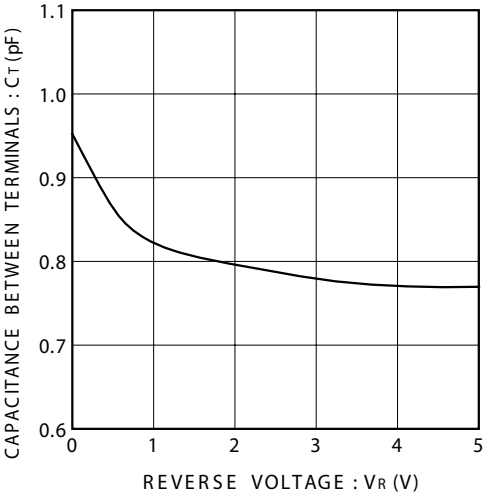


FIG. 4 Capacitance Between Terminals Characteristics

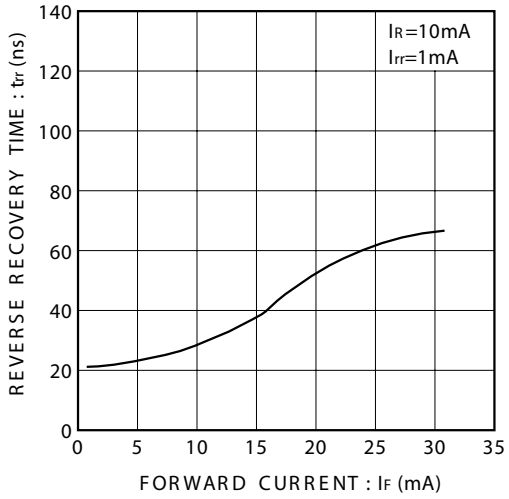


FIG. 5 Reverse Recovery Time Characteristics

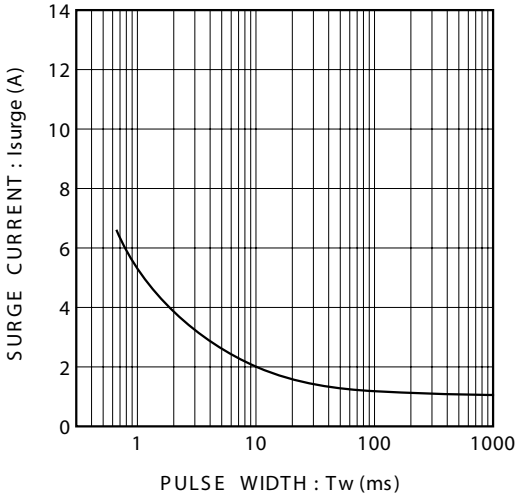


FIG.6 Surge Current Characteristics