High-voltage switching diode

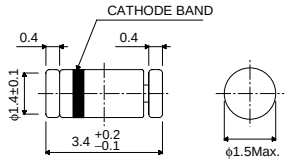
RLS245

●**Applications**
High voltage switching
General purpose rectification

●**Features**
1) High reliability
2) Small surface mounting type. (LLDS)
3) V_{RM}=250V guaranteed.

●**Construction**
Silicon epitaxial planar

●**External dimensions** (Units : mm)



ROHM : LLDS
JEDEC : LL-34, SOD-80
Common : mini-MELF

●**Absolute maximum ratings** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	250	V
DC reverse voltage	V_R	220	V
Peak forward current	I_{FM}	625	mA
Mean rectifying current	I_O	200	mA
Surge current (1s)	I_{surge}	1000	mA
Power dissipation	P	300	mW
Junction temperature	T_j	175	˚C
Storage temperature	T_{stg}	-65~+175	˚C

●**Cathode band colors**

Type	Color
RLS245	WHITE

●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	1.13	1.5	V	I_F=200mA
Reverse current	I_R	-	0.05	10	μA	V_R=220V
Capacitance between terminals	C_T	-	0.95	3	pF	V_R=0V, f=1MHz
Reverse recovery time	t_{rr}	-	-	75	ns	I_F=20mA, I_R=20mA, R_L=50Ω

●**Electrical characteristic curves** (Ta=25°C)

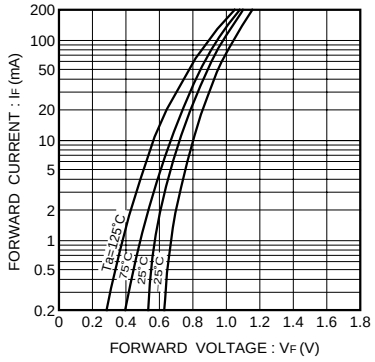


Fig. 1 Forward characteristics

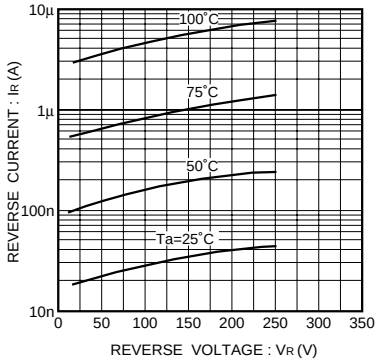


Fig. 2 Reverse characteristics

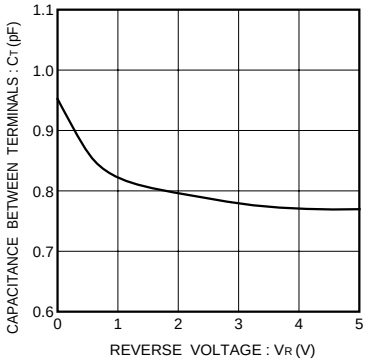


Fig. 3 Capacitance between terminals characteristics

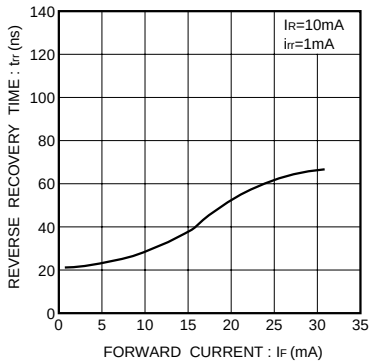


Fig. 4 Reverse recovery time characteristics

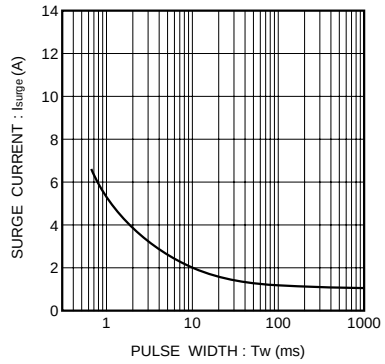


Fig.5 Surge current characteristics

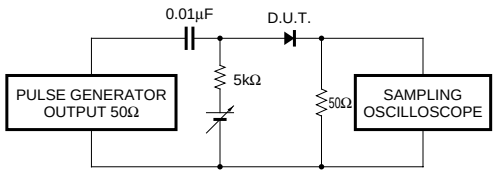


Fig. 6 Reverse recovery time (t_{rr}) measurement circuit