Low-leakage switching diode

1SS380

●Applications

Low leakage switching

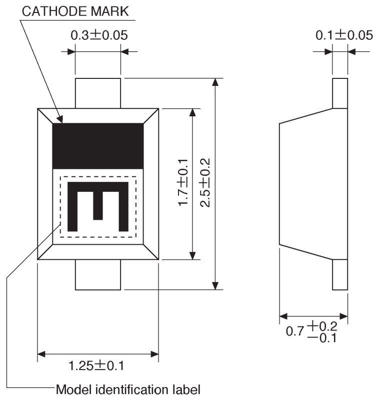
●Features

1) High reliability.
2) Small surface mounting type. (UMD2)
3) The typical reverse current is extremely low of 40pA.

●Construction

Silicon epitaxial planar

●External dimensions (Units: mm)



ROHM：UMD2
EIAJ：SC-76
JEDEC：SOD-323

●Absolute maximum ratings

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse voltage	V_R	35	V
Peak forward current	I_{FM}	225	mA
Mean rectifying current	I_O	100	mA
Surge current (1 μs)	Isurge	400	mA
Junction temperature	Tj	125	℃
Storage temperature	Tstg	－55～＋125	℃

●Electrical characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditons
Forward voltage	V_F	－	0.94	1.2	V	I_F＝100mA
Reverse current	I_R	－	0.04	10	nA	V_R＝20V
Capacitance between terminals	C_T	－	2.8	5.0	pF	V_R＝0.5V, f＝1MHz

●Electrical characteristic curves (Ta = 25°C unless specified otherwise)

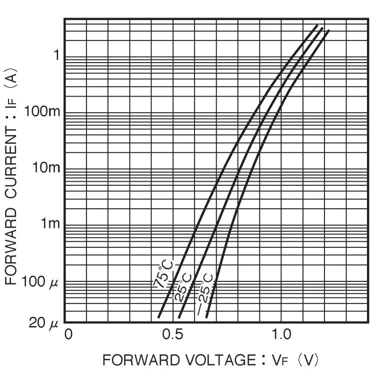


Fig. 1 Forward characteristics

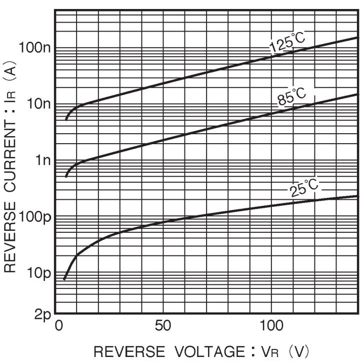


Fig. 2 Reverse characteristics

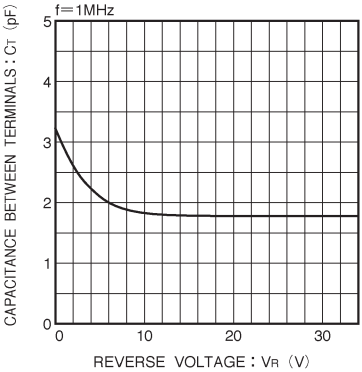


Fig. 3 Capacitance between terminals characteristics

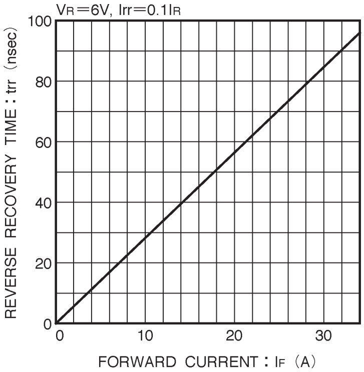


Fig. 4 Reverse recovery time characteristics

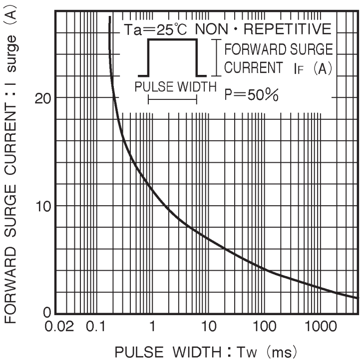


Fig. 5 Surge current characteristics

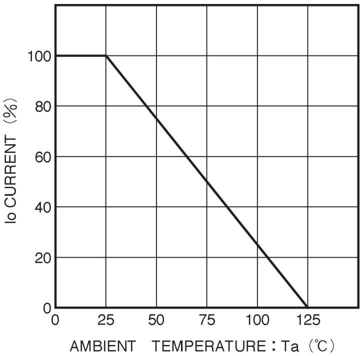


Fig. 6 Derating curve (mounting on glass epoxy PCBs)