Rectifier diode

1SR153-400

●Applications

High speed rectification

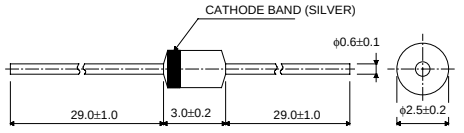
●Features

1) Cylindrical mold. (MSR)
2) V_{RM}=400V guaranteed while maintaining high speed.
3) High reliability.

●Construction

Silicon diffused junction

●External dimensions (Units : mm)



Type No. and date of manufacture stamped on body in digital marking.

ROHM : MSR
EIAJ : –
JEDEC : DO-41 mini

Date of manufacture 1999.12 → 9.N
Model name 1SR153-400 → 4

●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Absolute peak reverse voltage	V_{RSM}	500	V
Peak reverse voltage	V_{RM}	400	V
Mean rectifying current	I_O	1.0	A
Peak forward surge current *	I_{FSM}	30	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	–40~+150	°C

* 60Hz for 1 ∿

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	–	–	1.3	V	I_F=0.8A
Reverse current	I_R	–	–	10	μA	V_R=400V
Reverse recovery time	t_{rr}	–	–	0.4	μs	I_F=I_R=10mA, I_{rr}=1mA

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

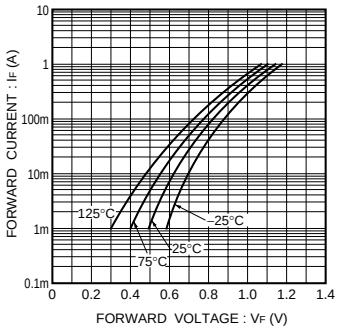


Fig.1 Forward characteristics

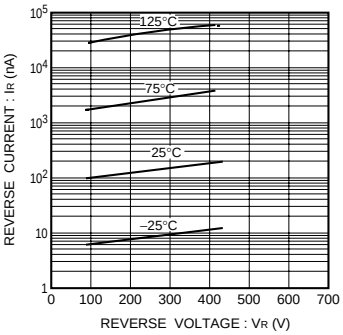


Fig.2 Reverse characteristics

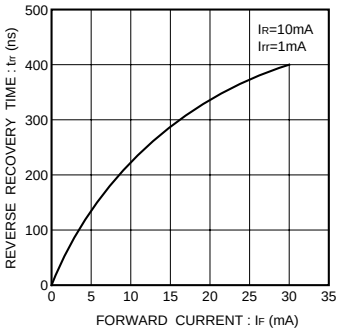


Fig.3 Reverse recovery time characteristics

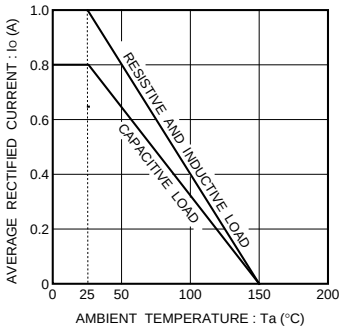


Fig.4 Derating curve

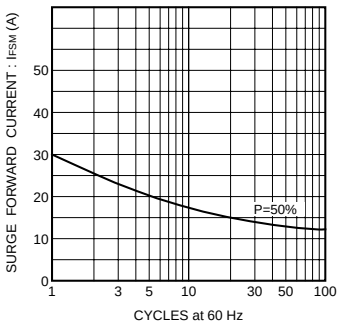


Fig.5 Surge current characteristics

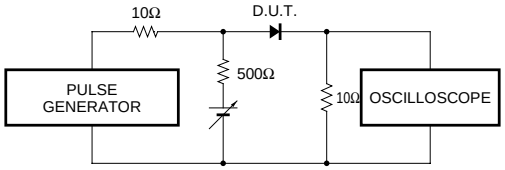


Fig.6 Reverse recovery time (t_{rr}) measurement circuit