

Schottky barrier diode

RB441Q-40

●Applications

Low current rectification

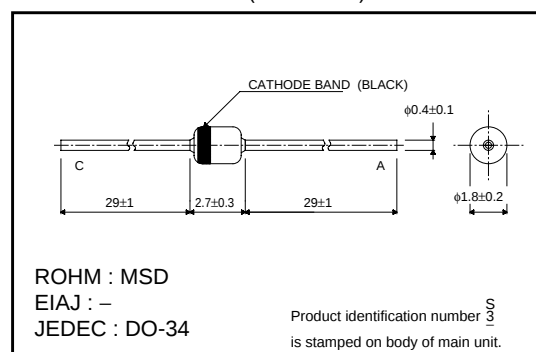
●Features

- 1) Glass sealed envelope for high reliability. (MSD)
- 2) Small pitch enables insertion on PCBs.
- 3) Low V_F . ($V_F=0.45V$ Typ. at 100mA)

●Construction

Silicon epitaxial planar

●External dimensions (Units : mm)



●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_o	0.1	A
Peak forward surge current	I_{FSM}	1	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40~+125	°C

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	—	—	0.34	V	$I_F=10mA$
Forward voltage	V_{F2}	—	—	0.55	V	$I_F=100mA$
Reverse current	I_R	—	—	100	μA	$V_R=40V$
Capacitance between terminals	C_T	—	6.0	—	pF	$V_R=10V, f=1MHz$

Note) ESD sensitive product handling required.

Diodes

●Electrical characteristic curves (Ta = 25°C)

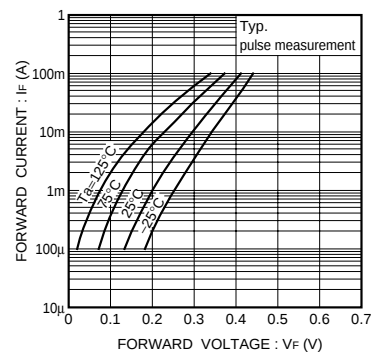


Fig. 1 Forward characteristics

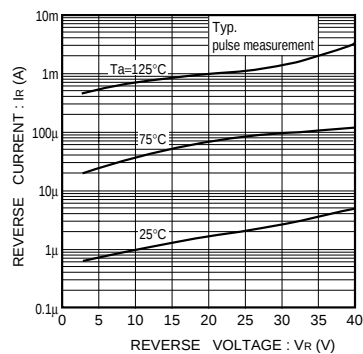


Fig. 2 Reverse characteristics

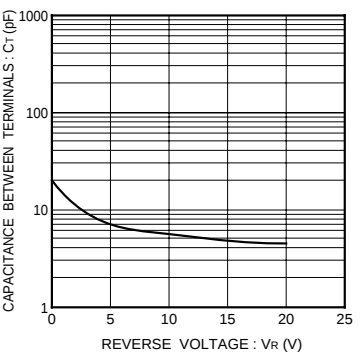


Fig. 3 Capacitance between terminals characteristics

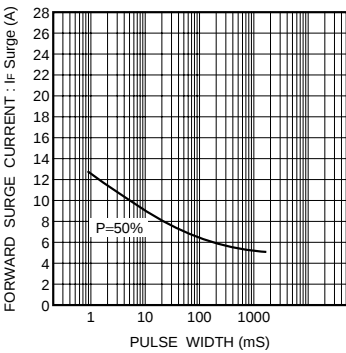


Fig. 4 Forward surge current characteristics

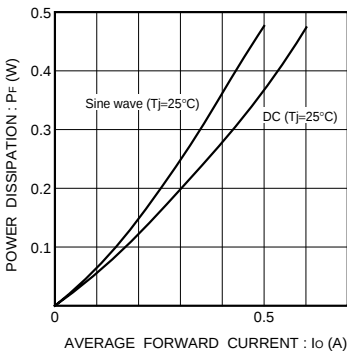


Fig. 5 Mean rectifying current characteristics

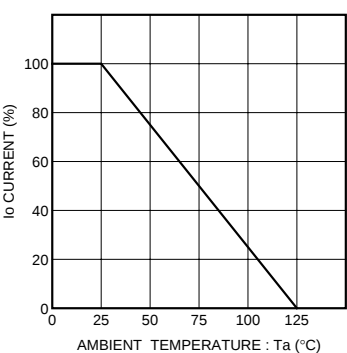


Fig. 6 Derating curve (mounting on glass epoxy PCBs)