

Schottky barrier diode

RB441Q-40

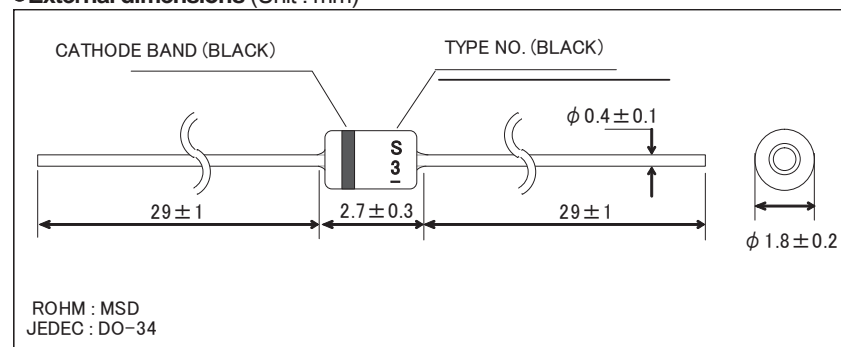
●Applications

Low current rectification

●Features

- 1) Glass sealed envelope. (MSD)
- 2) Low V_F , Low I_R
- 3) High reliability

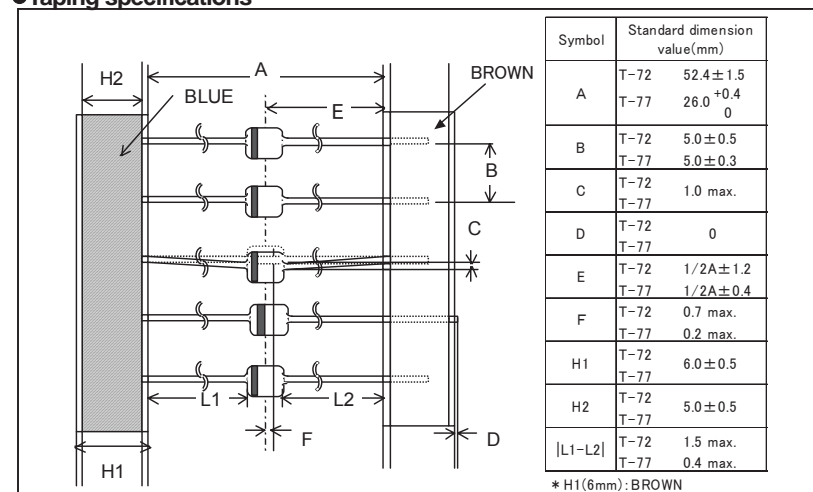
●External dimensions (Unit : mm)



●Construction

Silicon epitaxial planar

●Taping specifications



●Absolute maximum ratings (Ta = 25°C)

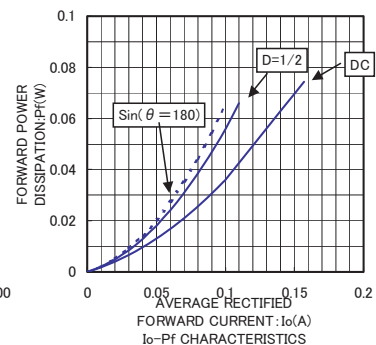
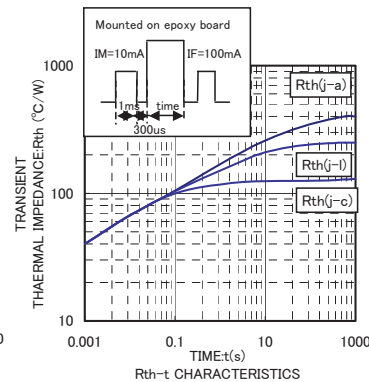
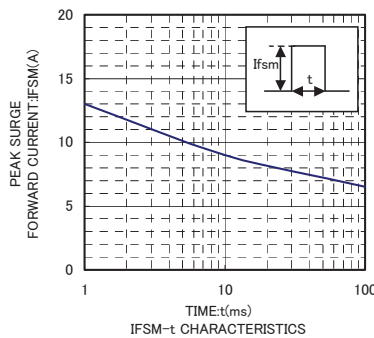
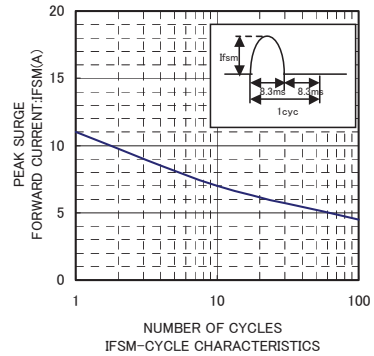
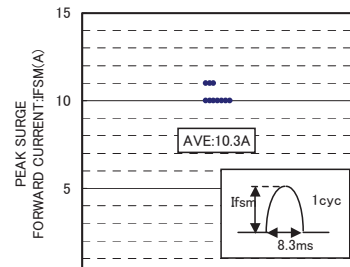
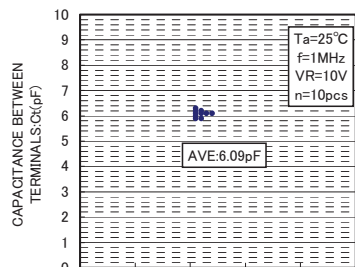
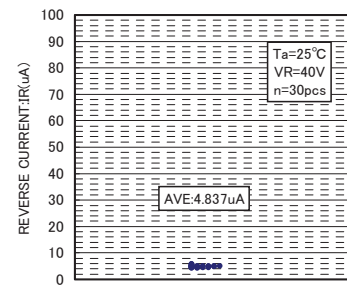
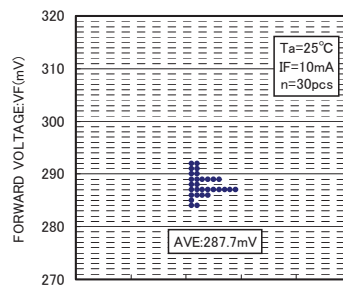
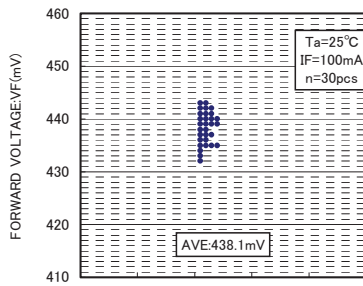
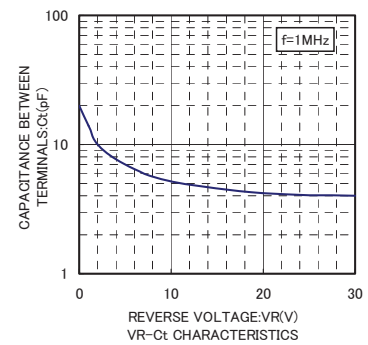
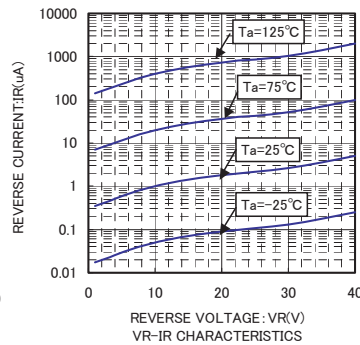
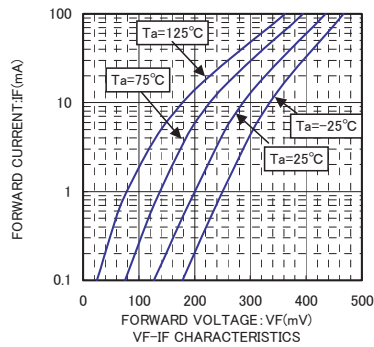
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	I_o	100	mA
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	1	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

●Electrical characteristics (Ta = 25°C)

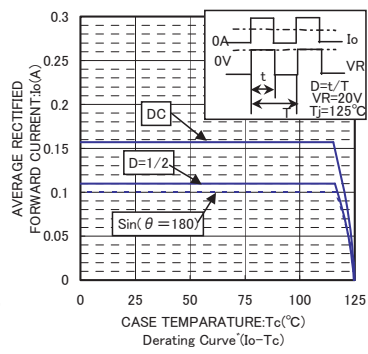
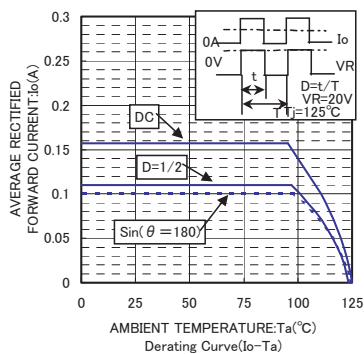
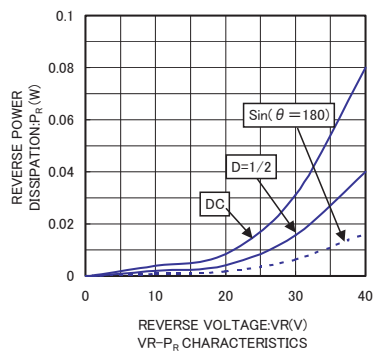
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward current	V_{F1}	-	-	0.34	V	$I_F = 10\text{mA}$
	V_{F2}	-	-	0.55	V	$I_F = 100\text{mA}$
Reverse current	I_R	-	-	100	μA	$V_R = 40\text{V}$
Capacitance between terminals	C_t	-	6.0	-	pF	$V_R = 10\text{V}$, $f = 1\text{MHz}$

Diodes

●Electrical characteristic curves



Diodes



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