

Schottky barrier diode

RB721Q-40

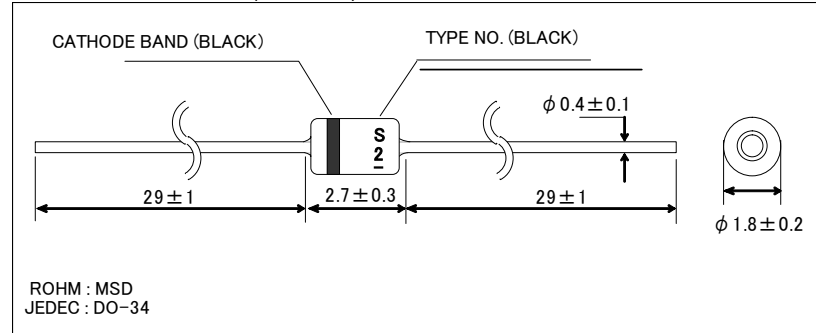
●Applications

Low current rectification

●Features

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

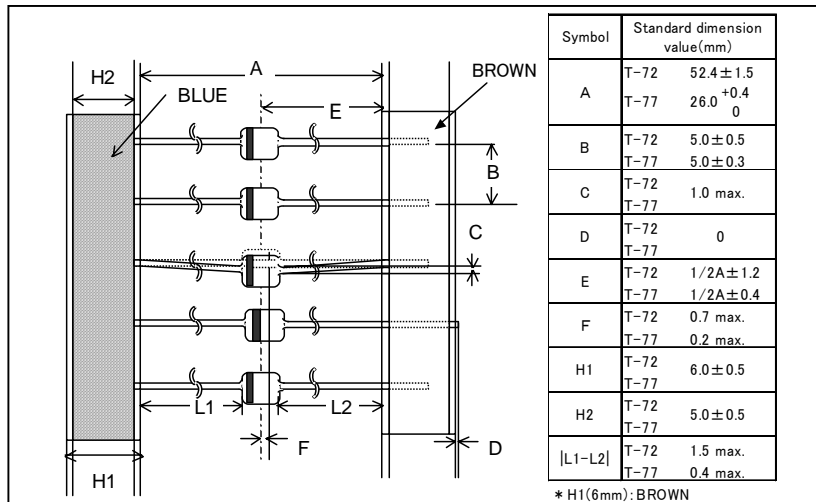
●External dimensions (Unit : mm)



●Construction

Silicon epitaxial planar

●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta = 25°C)

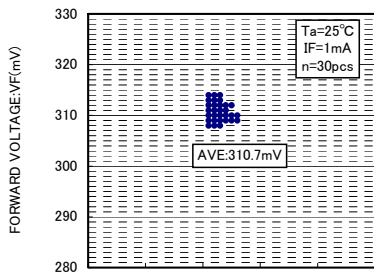
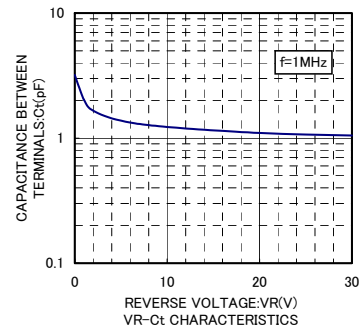
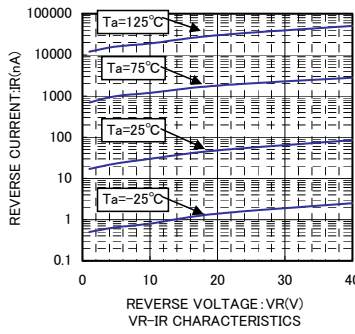
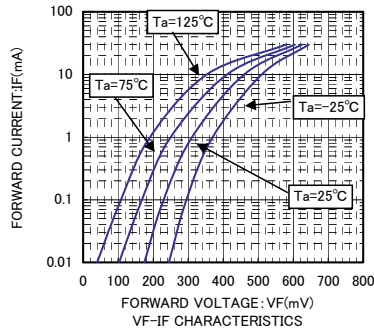
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	I_o	30	mA
Forward current surge peak (60Hz·1cyc)	I_{FSM}	200	mA
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

●Electrical characteristics (Ta = 25°C)

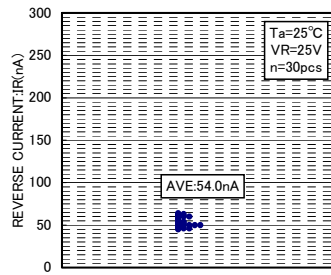
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.37	V	$I_F=1mA$
Reverse current	I_R	-	-	0.5	μA	$V_R=25V$
Capacitance between terminals	C_t	-	2.0	-	pF	$V_R=1V, f=1MHz$

Diodes

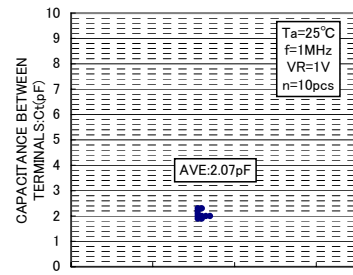
●Electrical characteristic curves



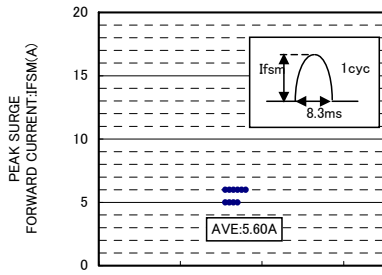
VF DISPERSION MAP



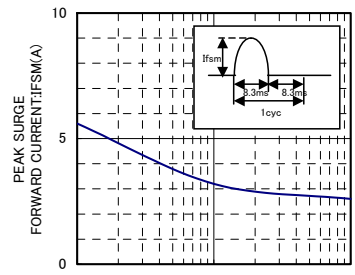
IR DISPERSION MAP



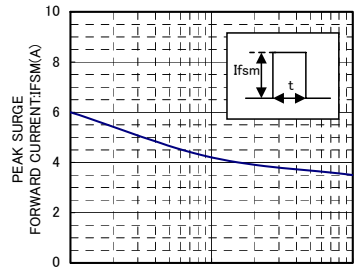
Ct DISPERSION MAP



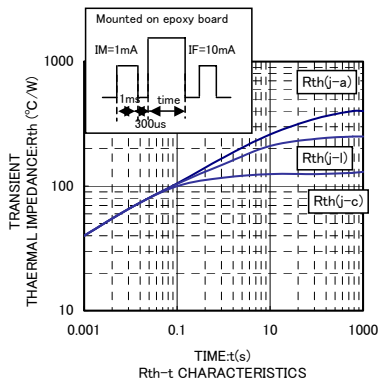
IFSM DISREION MAP



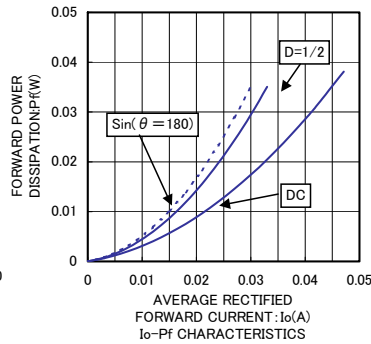
IFSM-CYCLE CHARACTERISTICS



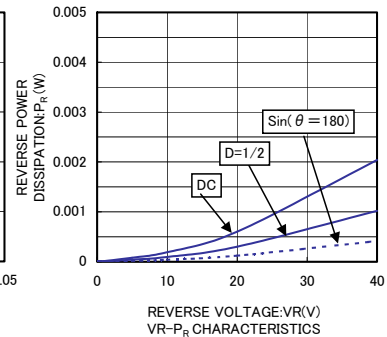
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS

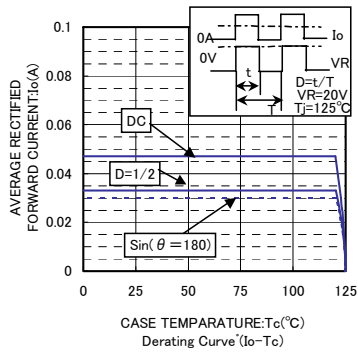
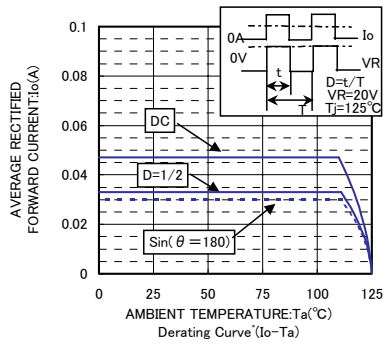


Io-Pf CHARACTERISTICS



VR-Pr CHARACTERISTICS

Diodes



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