# Schottky barrier diode

# **RB441Q-40**

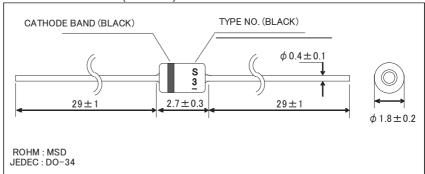
# Applications

Low current rectification

#### Features

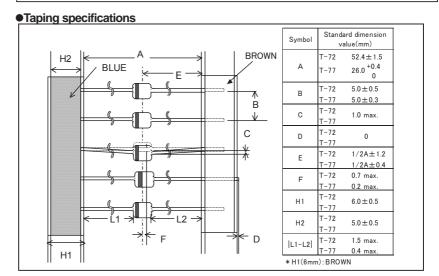
- 1) Glass sealed envelope. (MSD)
- 2) Low V<sub>F</sub>, Low I<sub>R</sub>
- 3) High reliability

# ●External dimensions (Unit : mm)



# Construction

Silicon epitaxial planar



# ● Absolute maximum ratings (Ta = 25°C)

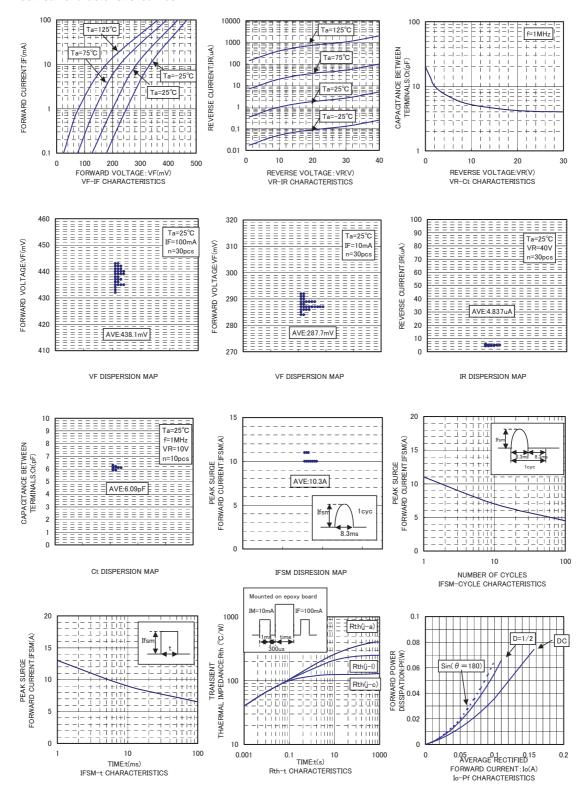
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	lo	100	mA
Forward current surge peak (60Hz · 1cyc)	I <sub>FSM</sub>	1	Α
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40 to +125	°C

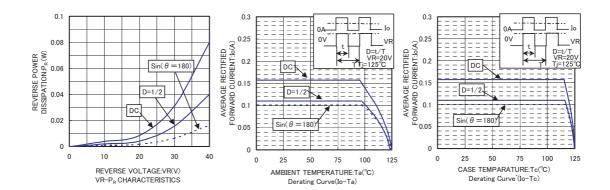
# ●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward current	$V_F1$	-	-	0.34	V	I <sub>F</sub> =10mA
	V <sub>F</sub> 2	-	-	0.55	V	I <sub>F</sub> =100mA
Reverse current	I <sub>R</sub>	-	-	100	μA	V <sub>R</sub> =40V
Capacitance between terminals	Ct	-	6.0	-	pF	V <sub>R</sub> =10V , f=1MHz



#### •Electrical characteristic curves





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