Schottky barrier diode RB201A60

Applications

General rectification

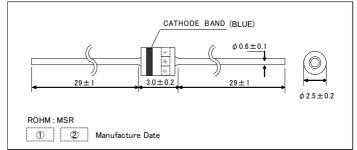
● Features

- 1) Cylindrical mold type.(MSR)
- 2) Low V_F .
- 3) High ESD.

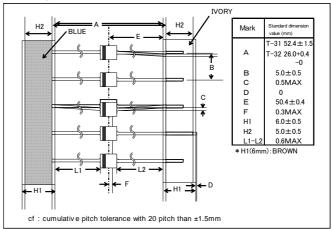
Construction

Silicon epitaxial planar

• External dimensions (Unit : mm)



• Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current (*1)	lo	2	Α
Forward current surge peak (t=100µs)	I _{FSM}	40	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

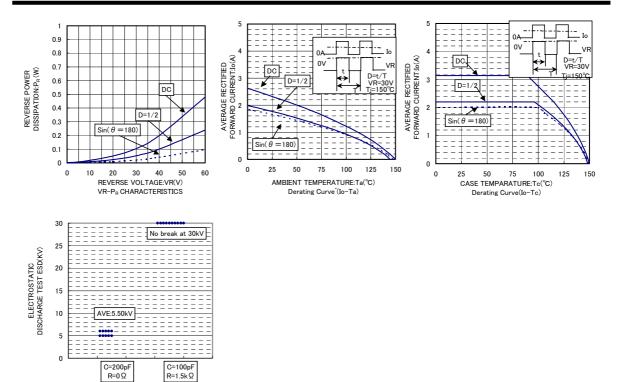
^(*1) Mounted on epoxy board. 180°Half sine wave

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	0.58	V	I _F =2.0A
Reverse current	I_R	-	-	100	μΑ	$V_R=60V$

●Electrical characteristic curves (Ta=25°C) 100000 1000 10000 FORWARD CURRENT:IF(mA) 1 00 CAPACITANCE BETWEEN TERMINALS:Ct(pF) REVERSE CURRENT:IR(uA) 1000 100 10 0.1 0.1 0.01 15 20 25 5 10 15 20 REVERSE VOLTAGE:VR(V) 10 0 0 30 FORWARD VOLTAGE: VF(mV) REVERSE VOLTAGE: VR(V) VF-IF CHARACTERISTICS VR-IR CHARACTERISTICS VR-Ct CHARACTERISTICS 400 Ta=25°C IF=2A n=30pcs Ta=25°C FORWARD VOLTAGE:VF(mV) 360 80 REVERSE CURRENT:IR(uA) CAPACITANCE BETWEEN 340 340 320 300 280 260 70 60 540 50 AVE:316.3pF 530 30 240 20 520 200 510 IR DISPERSION MAP Ct DISPERSION MAP 100 Ta=25°C IF=0.5A IR=1A RESERVE RECOVERY TIME:trr(ns) 250 PEAK SURGE FORWARD CURRENT:IFSM(A) FORWARD CURRENT:IFSM(A) 80 rr=0.25*IF 200 20 PEAK SURGE 60 50 150 15 AVE:66.0A 40 100 10 30 50 AVE:9.5ns 10 0 10 NUMBER OF CYCLES IFSM-CYCLE CHARACTERISTICS trr DISPERSION MAP IFSM DISRESION MAP 150 10000 PEAK SURGE FORWARD CURRENT:IFSM(A) 9000 100 THAERMAL IMPEDANCE:Rth 0 0 $Sin(\theta = 180)$ FORWARD POWER DISSIPATION:Pf(W) TRANSIENT 50 0.1 I TIME:t(s) 100 1000 10 TIME:t(ms) AVERAGE RECTIFIED FORWARD CURRENT:Io(A) Io-Pf CHARACTERISTICS IFSM-t CHARACTERISTICS Rth-t CHARACTERISTICS

ESD DISPERSION MAP



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