Schottky barrier diode

RB215T-40

●**Applications**

Switching power supply

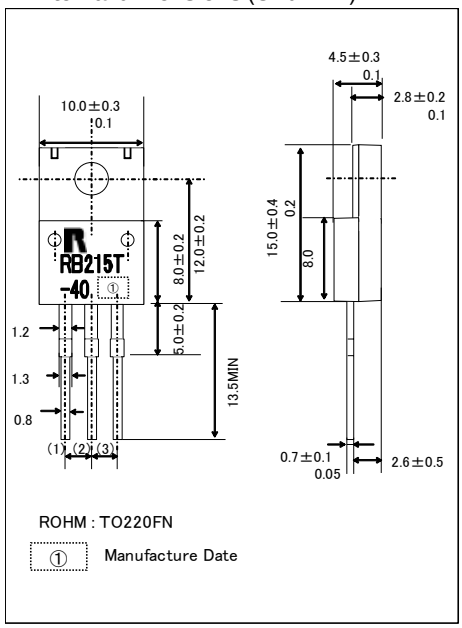
●**Features**

1) Cathode common dual type.
(TO-220)
2) Low I_R
3) High reliability

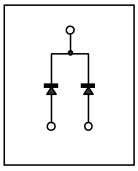
●**Construction**

Silicon epitaxial planar

●**External dimensions** (Unit : mm)



●**Structure**



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

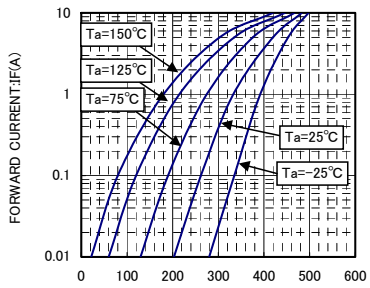
Parameter	Symbol	Limits	Unit
Forward voltage (repetitive peak)	V_{RM}	45	V
Forward voltage (DC)	V_R	40	V
Average rectified forward current (*1)	Io	20	A
Forward current surge peak (60Hz・1cyc) (*1)	I_{FSM}	100	A
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-40 to +150	℃

(*1)Tc=100℃max Per chip : Io/2

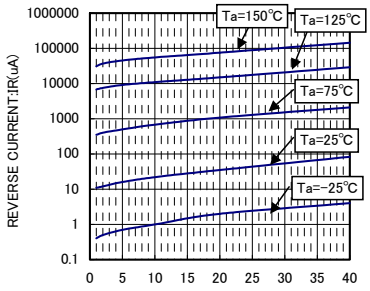
●**Electrical characteristic** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.55	V	I_F=10A
Reverse current	I_R	-	-	500	μA	V_R=40V
Thermal impedance	θjc	-	-	1.75	℃/W	junction to case

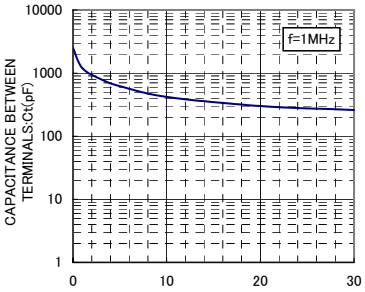
●Electrical characteristic curves



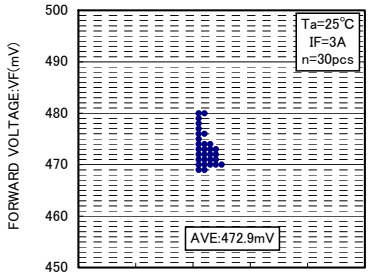
VF-IF CHARACTERISTICS



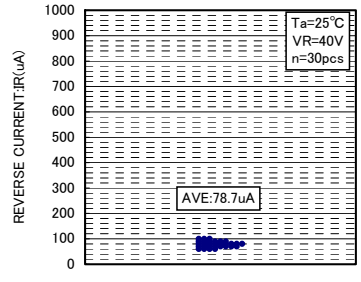
VR-IR CHARACTERISTICS



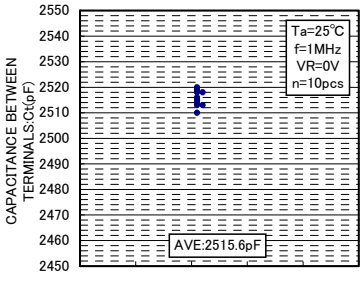
VR-Ct CHARACTERISTICS



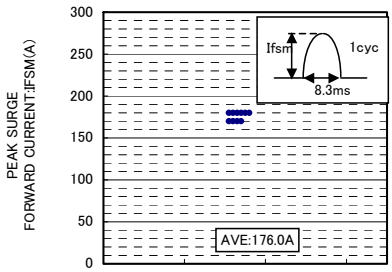
VF DISPERSION MAP



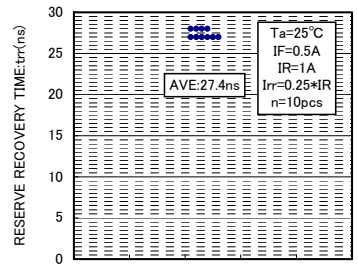
IR DISPERSION MAP



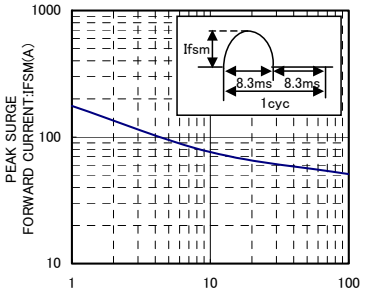
Ct DISPERSION MAP



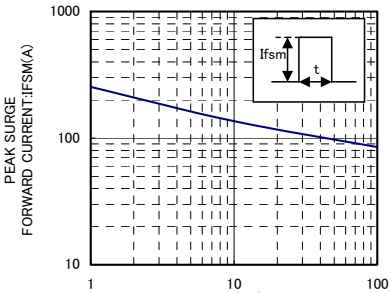
IFSM DISRESION MAP



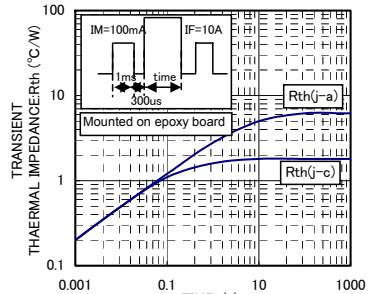
trr DISPERSION MAP



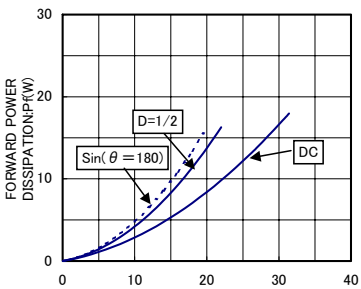
IFSM-CYCLE CHARACTERISTICS



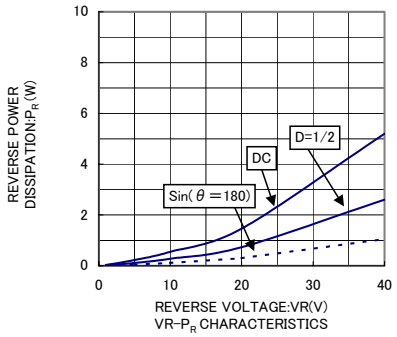
IFSM-t CHARACTERISTICS



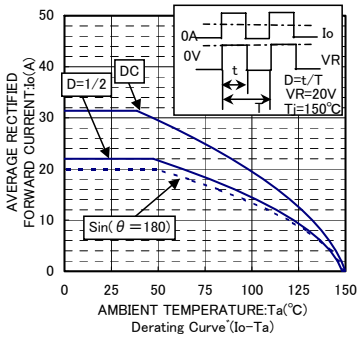
Rth-t CHARACTERISTICS



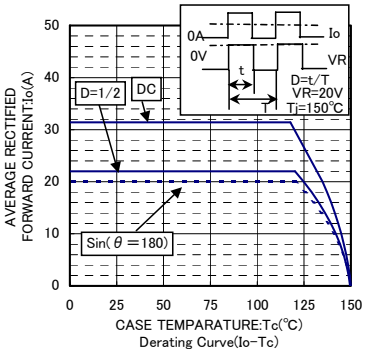
Io-Pf CHARACTERISTICS



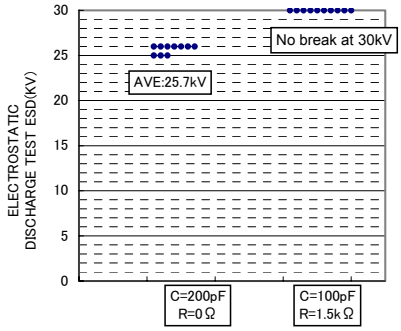
VR-P_R CHARACTERISTICS



Derating Curve(Io-Ta)



Derating Curve(Io-Tc)



ESD DISPERSION MAP

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