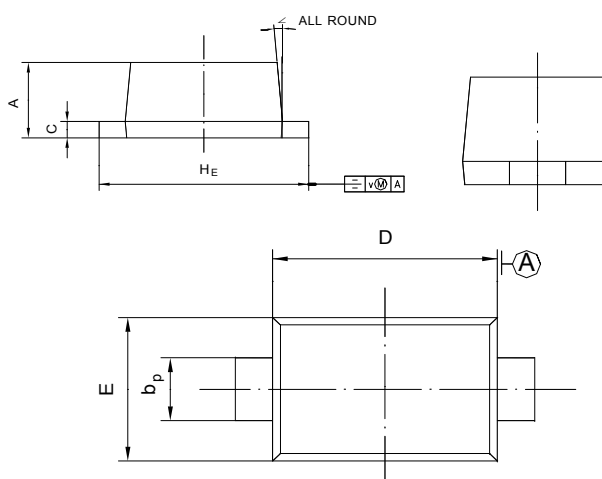


Features

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

Marking Code: " D "



UNIT	A	b _p	C	D	E	H _E	V	∠
mm	0.70 0.50	0.40 0.20	0.14 0.05	1.30 1.10	0.90 0.75	1.70 1.50	0.1	5°

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V _{RM}	40	V
Reverse Voltage	V _R	30	V
Mean Rectifying Current	I _O	30	mA
Peak Forward Surge Current (60 Hz, 1 Cycle)	I _{FSM}	200	mA
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _{stg}	- 40 to + 125	°C

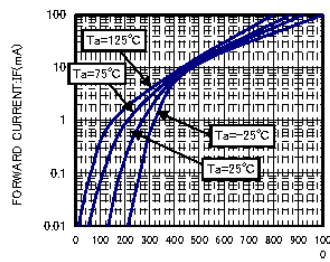
RB751S40T1G

Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

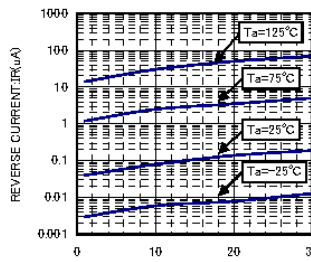
Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$	V_F	-	0.37	V
Reverse Current at $V_R = 30\text{ V}$	I_R	-	0.5	μA
Capacitance Between Terminals at $V_R = 1\text{ V}$, $f = 1\text{ MHz}$	C_T	2	-	pF

Note: ESD sensitive product handling required.

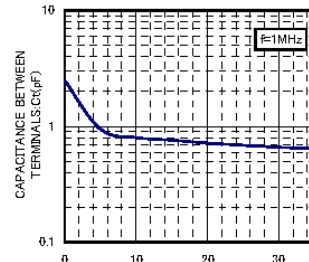
RATING AND CHARACTERISTIC CURVES (RB751S40T1G)



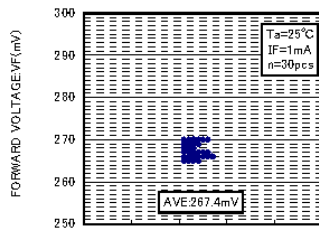
VF-IF CHARACTERISTICS
VF分布



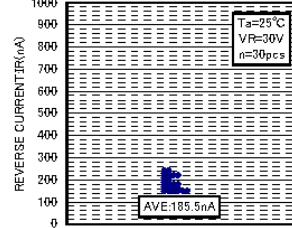
REVERSE VOLTAGE: VR(V)
VR-IR CHARACTERISTICS



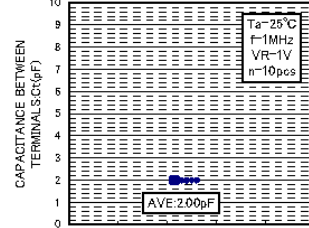
REVERSE VOLTAGE: VR(V)
VR-Ct CHARACTERISTICS



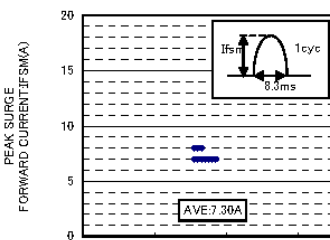
VF DISPERSION MAP



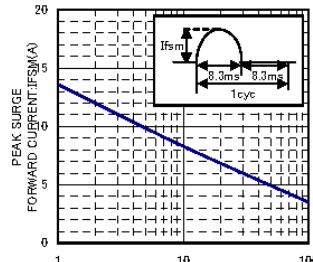
IR DISPERSION MAP



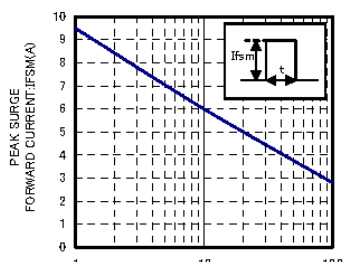
Ct DISPERSION MAP



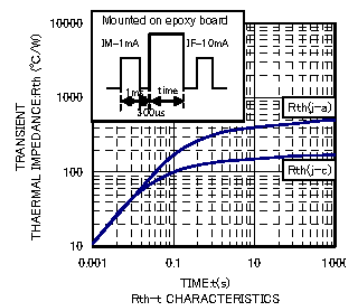
IFSM DISPERSION MAP



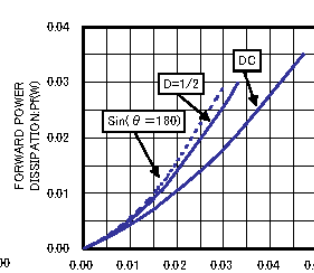
IFSM-CYCLE CHARACTERISTICS



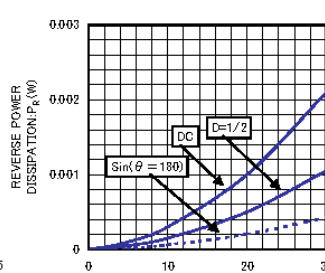
IFSM-t CHARACTERISTICS



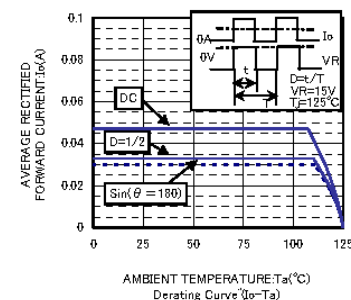
Rth-t CHARACTERISTICS



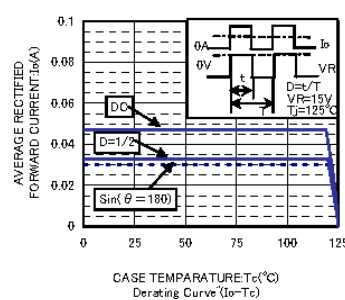
AVERAGE RECTIFIED
FORWARD CURRENT: Io(A)
Io-Pf CHARACTERISTICS



REVERSE VOLTAGE: VR(V)
VR-Pa CHARACTERISTICS



AMBIENT TEMPERATURE: Ta(°C)
Derating Curve (Io-Ta)



CASE TEMPERATURE: Tc(°C)
Derating Curve (Io-Tc)