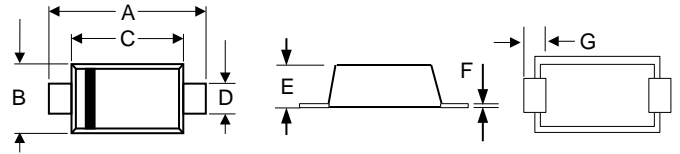


Features

- * Small surface mounting type
- * Low reverse current and low forward voltage
- * High reliability
- * For high speed switching and detection applications
- * Marking Code: "D"



RoHS
COMPLIANT



SOD-523F				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.50	1.70
B	0.030	0.033	0.75	0.85
C	0.045	0.049	1.15	1.25
D	0.012	0.016	0.30	0.40
E	0.024	0.028	0.60	0.70
F	0.004	0.005	0.10	0.14

Maximum Ratings (T_A=25°C unless otherwise noted)

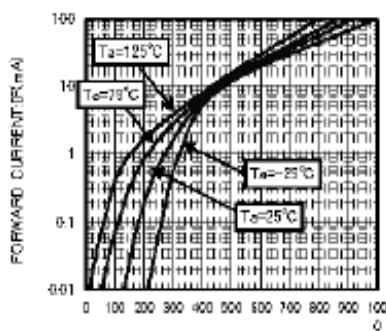
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V _{RM}	40	V
Reverse Voltage	V _R	30	V
Mean Rectifying Current	I _O	30	mA
Peak Forward Surge Current (60 Hz, 1 Cycle)	I _{FSM}	200	mA
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _{stg}	- 40 to + 125	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

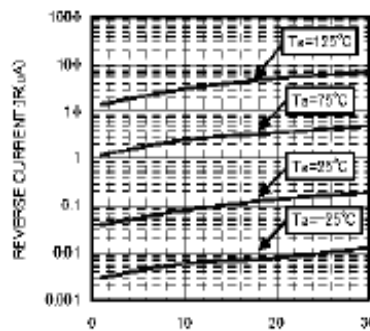
Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at I _F = 1 mA	V _F	-	0.37	V
Reverse Current at V _R = 30 V	I _R	-	0.5	μA
Capacitance Between Terminals at V _R = 1 V, f = 1 MHz	C _T	2	-	pF

Note: ESD sensitive product handling required.

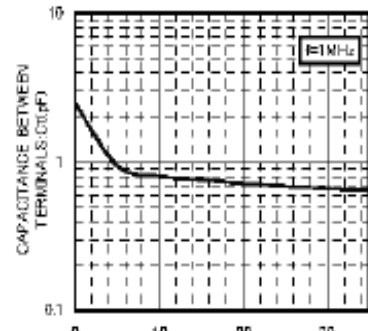
Ratings and Characteristic Curves



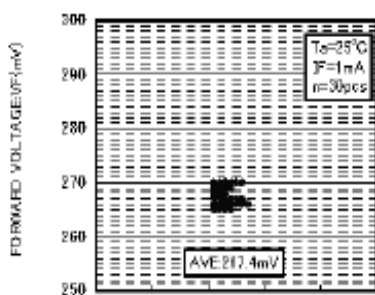
VF-IF CHARACTERISTICS
VF分布



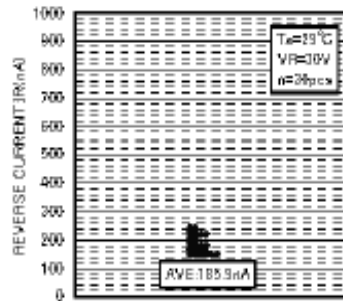
VR-IR CHARACTERISTICS



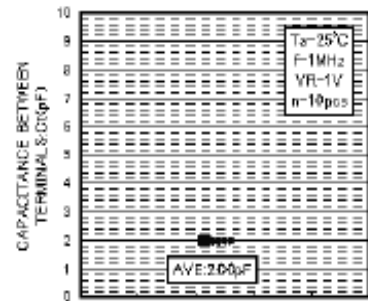
VR-C_T CHARACTERISTICS



VF DISPERSION MAP

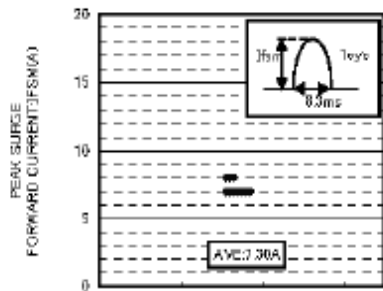


IR DISPERSION MAP

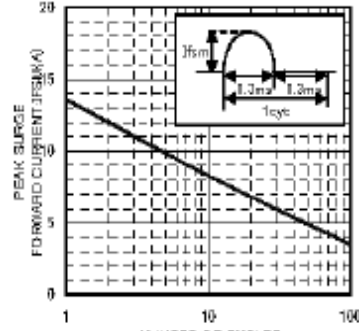


C_T DISPERSION MAP

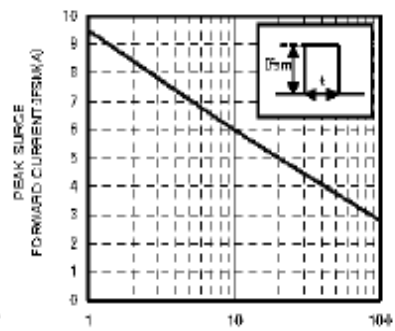
Ratings and Characteristic Curves



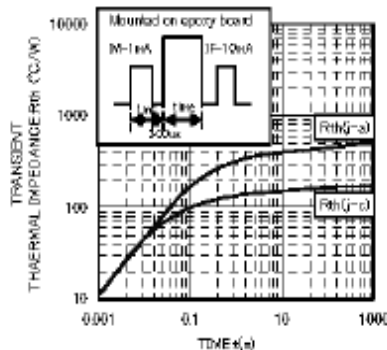
IFSM DISPERSION MAP



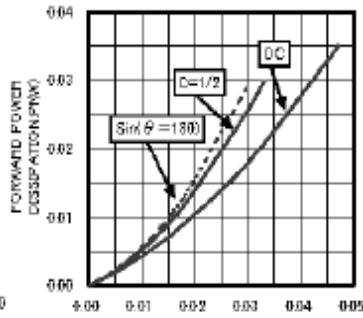
NUMBER OF CYCLES
IFSM-CYCLE CHARACTERISTICS



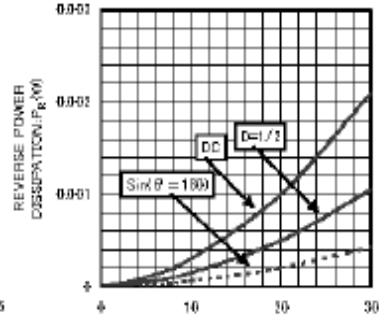
TIME (ms)
IFSM-t CHARACTERISTICS



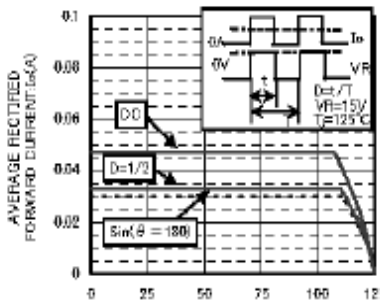
TIME (s)
Rth-t CHARACTERISTICS



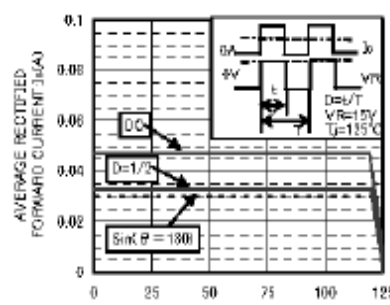
AVERAGE RECTIFIED
FORWARD CURRENT $I_F(A)$
IF-PF CHARACTERISTICS



REVERSE VOLTAGE $V_R(V)$
VR-Pg CHARACTERISTICS



AMBIENT TEMPERATURE $T_a(^{\circ}C)$
Derating Curve (I_F-T_a)



CASE TEMPERATURE $T_c(^{\circ}C)$
Derating Curve (I_F-T_c)



RB751S-40

Silicon Epitaxial Planar Schottky Barrier Diode

Ordering Information

Part No.	Package	Packing Code	Packing
RB751S-40	SOD-523F	R30	3000pcs/Reel

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