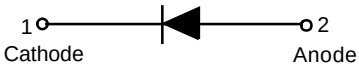
SCHOTTKY BARRIER DIODE

LRB520CS−30T5G



SOD923



●Applications

Low current rectification

●Features

Extremelysmall surface mounting type. (SOD923)

Low I_R.

High reliability.

We declare that the material of product compliance with RoHS requirements.

●Construction

Silicon epitaxial planar

Device Marking And Ordering Information

Device	Marking	Shipping
LRB520CS-30T5G	E	8000/Tape&Reel

Maximum Ratings (T_A = 25°C)

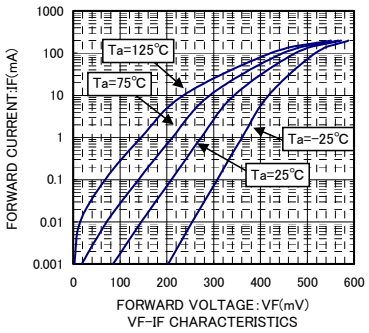
Parameter	Symbol	Limits	Unit
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	100	mA
Peak forward surge current	I_{FSM}	500	mA
Junction temperature	T_j	125	℃
Storage temperature	T_{stg}	-40~+125	℃

Electrical Characteristics (T_A = 25°C)

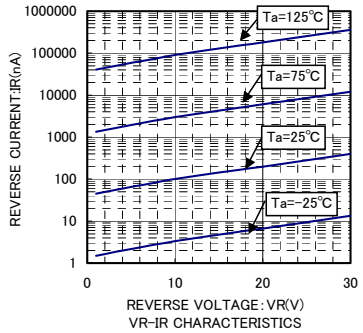
Parameter	Symbol	Min.	Typ	Max.	Unit	Conditions
Forward voltage	V_F	–	–	0.45	V	I_F=10mA
Forward voltage	V_F	–	–	0.50	V	I_F=20mA
Reverse current	I_R	–	–	0.5	μA	V_R=10V

LRB520CS–30T5G

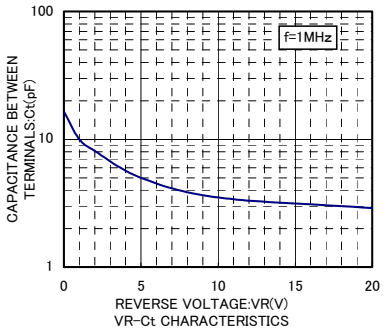
Electrical characteristic curves (Ta=25°C)



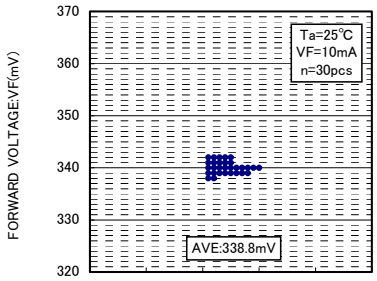
VF-IF CHARACTERISTICS



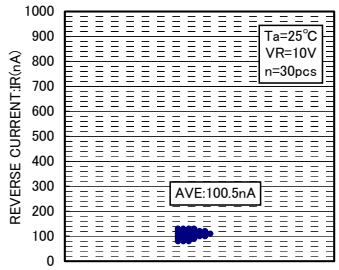
VR-IR CHARACTERISTICS



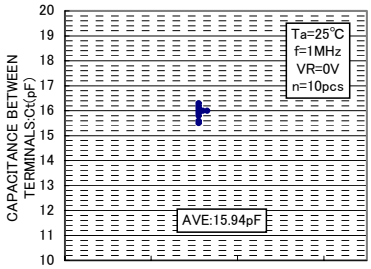
VR-Ct CHARACTERISTICS



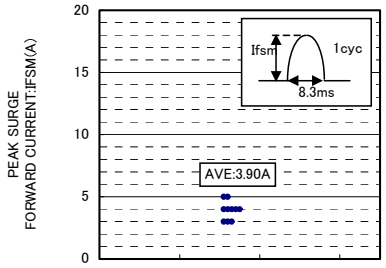
VF DISPERSION MAP



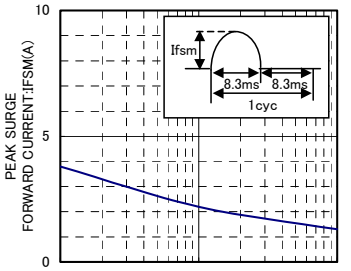
IR DISPERSION MAP



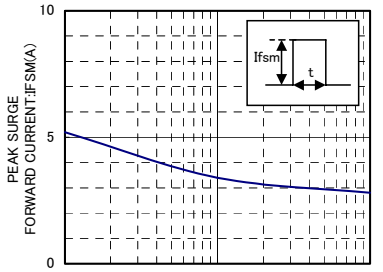
Ct DISPERSION MAP



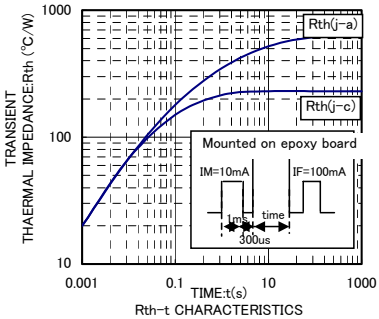
IFSM DISRESION MAP



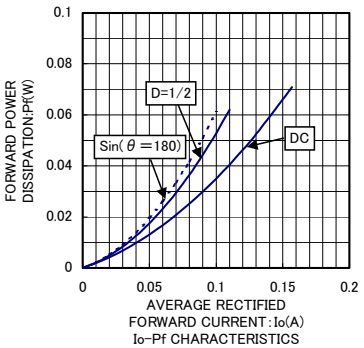
IFSM-CYCLE CHARACTERISTICS



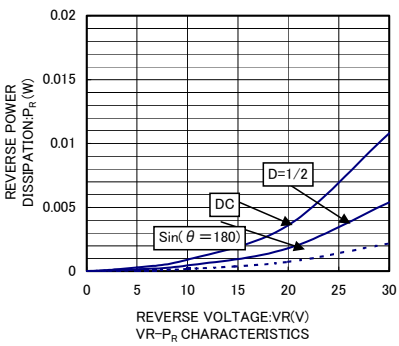
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



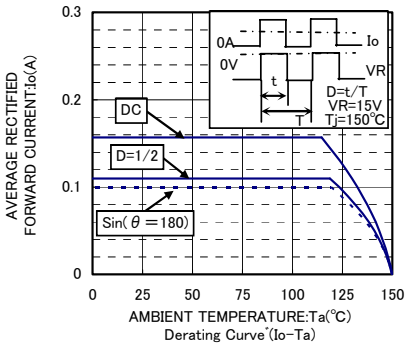
Io-Pf CHARACTERISTICS

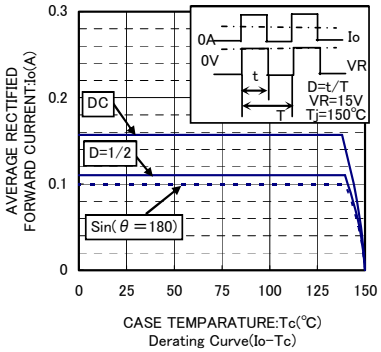


VR-P_R CHARACTERISTICS

LRB520CS–30T5G

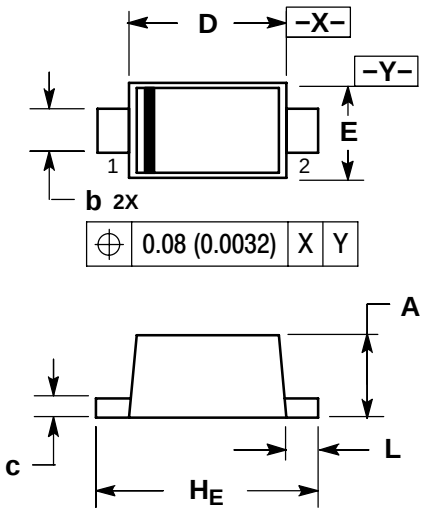
Electrical characteristic curves (Ta=25°C)





LRB520CS-30T5G

SOD−923



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.34	0.39	0.43	0.013	0.015	0.017
b	0.15	0.20	0.25	0.006	0.008	0.010
c	0.07	0.12	0.17	0.003	0.005	0.007
D	0.75	0.80	0.85	0.030	0.031	0.033
E	0.55	0.60	0.65	0.022	0.024	0.026
H_E	0.95	1.00	1.05	0.037	0.039	0.041
L	0.05	0.10	0.15	0.002	0.004	0.006

SOLDERING FOOTPRINT*

