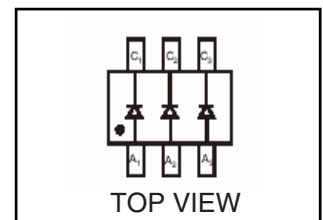
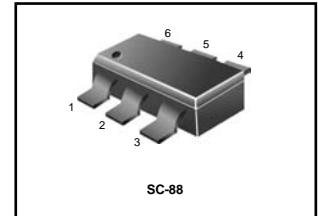


SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAY

LRB731XNRT1G

FEATURES

- Small Power Mold Type
- Low Forward Voltage — 0.37 Volts (Typ) @ $I_F = 1\text{mA}$
- High Reliability
- We declare that the material of product compliance with RoHS requirements.



DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LRB731XNRT1G	D3P	3000/Tape&Reel
LRB731XNRT3G	D3P	10000/Tape&Reel

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

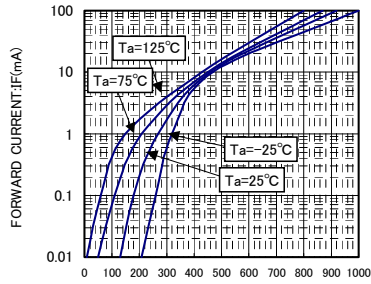
Rating	Symbol	Value	Unit
Reverse Voltage (repetitive peak)	V_{RM}	40	Volts
Reverse Voltage(DC)	V_R	40	Volts
Average Rectified Forward Current	I_O	30	mA
Forward Current (DC)	I_F	200 Max	mA
Junction Temperature	T_J	125 Max	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 to +125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$ unless otherwise noted) (EACH DIODE)

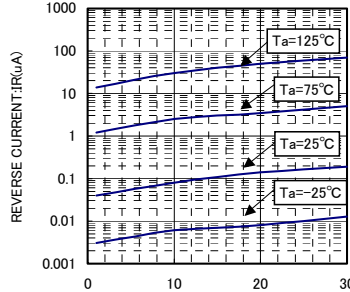
Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage ($I_F = 1.0\text{mA}$)	V_F	—	—	0.37	Volts
Reverse Leakage ($V_R = 10\text{V}$)	I_R	—	—	1	μA
Total Capacitance ($V_R = 1.0\text{V}$, $f = 1.0\text{MHz}$)	C_T	—	2	—	pF

LRB731XNRT1G

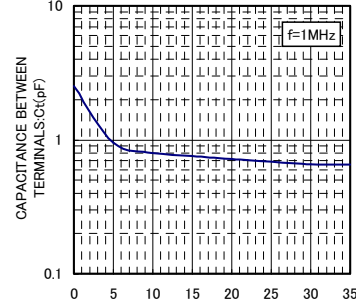
Electrical Characteristic Curves



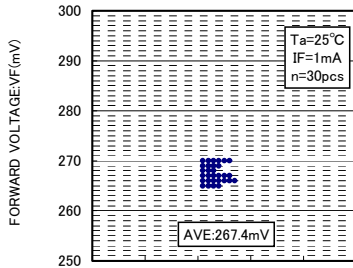
FORWARD VOLTAGE:VF(mV)
VF-IF CHARACTERISTICS



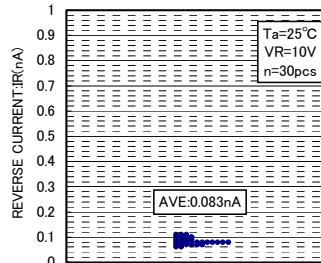
REVERSE VOLTAGE:VR(V)
VR-IR CHARACTERISTICS



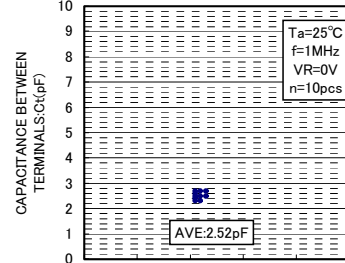
REVERSE VOLTAGE:VR(V)
VR-Ct CHARACTERISTICS



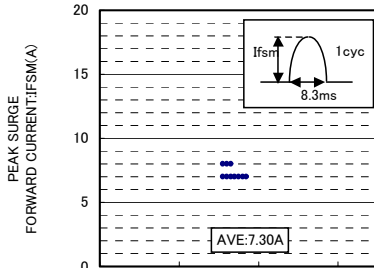
VF DISPERSION MAP



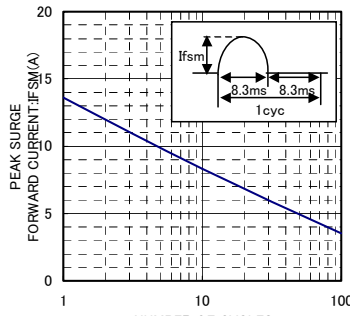
IR DISPERSION MAP



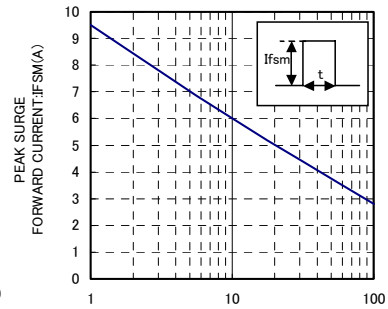
Ct DISPERSION MAP



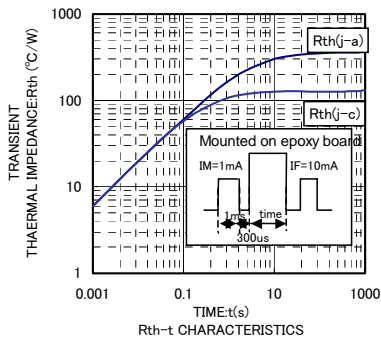
IFSM DISPERSION MAP



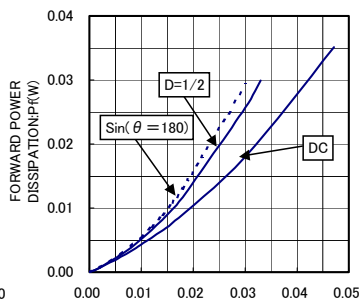
IFSM-CYCLE CHARACTERISTICS



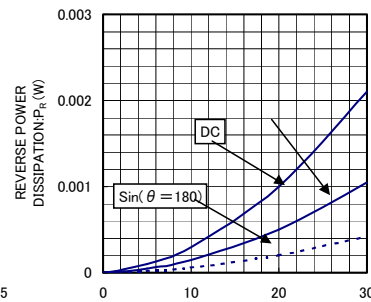
IFSM-t CHARACTERISTICS



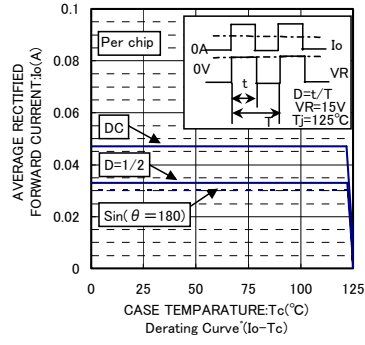
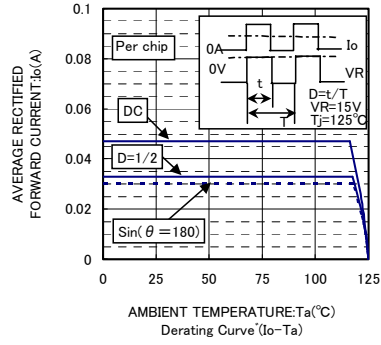
Rth-t CHARACTERISTICS



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



REVERSE VOLTAGE:VR(V)
VR-Pr CHARACTERISTICS

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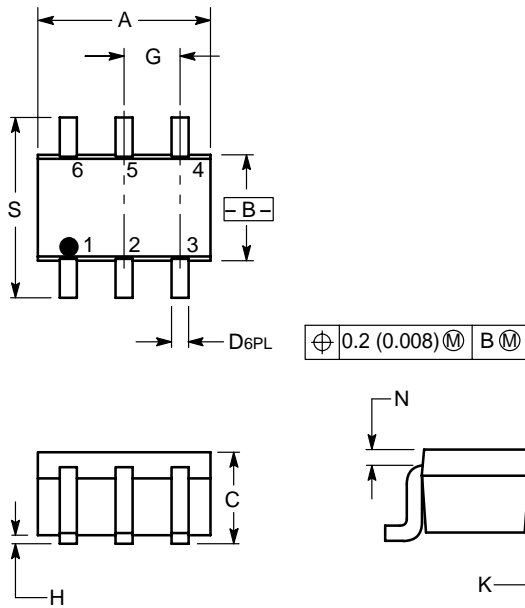
LRB731XNRT1G

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NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

2. CONTROLLING DIMENSION: INCH.



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.071	0.087	1.80	2.20
B	0.045	0.053	1.15	1.35
C	0.031	0.043	0.80	1.10
D	0.004	0.012	0.10	0.30
G	0.026 BSC		0.65 BSC	
H	---	0.004	---	0.10
J	0.004	0.010	0.10	0.25
K	0.004	0.012	0.10	0.30
N	0.008 REF		0.20 REF	
S	0.079	0.087	2.00	2.20

- PIN 1. EMITTER 2
- 2. BASE 2
- 3. COLLECTOR 1
- 4. EMITTER 1
- 5. BASE 1
- 6. COLLECTOR 2

