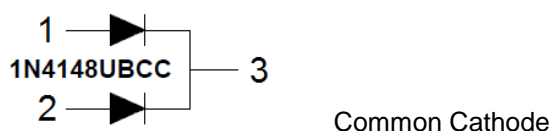
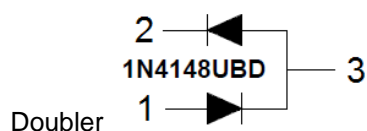
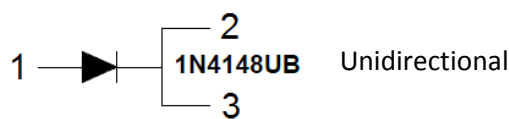
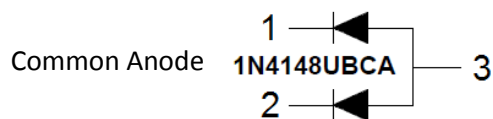
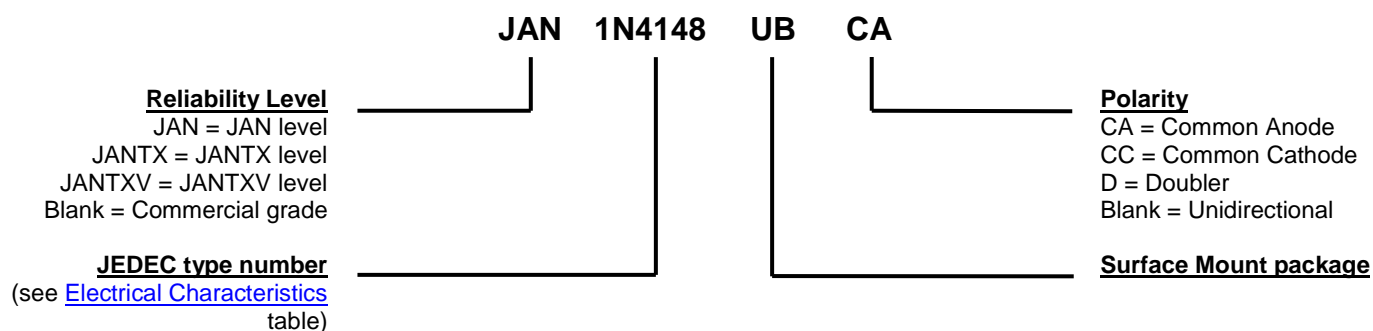


MECHANICAL and PACKAGING

- CASE: Ceramic.
- TERMINALS: Gold plating over nickel under plate.
- MARKING: Part number, date code, manufacturer's ID.
- TAPE & REEL option: Standard per EIA-418D. Consult factory for quantities.
- WEIGHT: < 0.04 Grams.
- See [Package Dimensions](#) on last page.

PART NOMENCLATURE



SYMBOLS & DEFINITIONS

Symbol	Definition
I_R	Reverse Current: The maximum reverse (leakage) current that will flow at the specified voltage and temperature.
I_o	Average Rectified Forward Current: The output current averaged over a full cycle with a 50 Hz or 60 Hz sine-wave input and a 180 degree conduction angle.
t_{rr}	Reverse Recovery Time: The time interval between the instant the current passes through zero when changing from the forward direction to the reverse direction and a specified decay point after a peak reverse current occurs.
V_F	Forward Voltage: The forward voltage the device will exhibit at a specified current (typically shown as maximum value).
V_R	Reverse Voltage: The reverse voltage dc value, no alternating component.
V_{RWM}	Working Peak Reverse Voltage: The maximum peak voltage that can be applied over the operating temperature range excluding all transient voltages (ref JESD282-B). Also sometimes known as PIV.

ELECTRICAL CHARACTERISTICS @ 25 °C unless otherwise noted

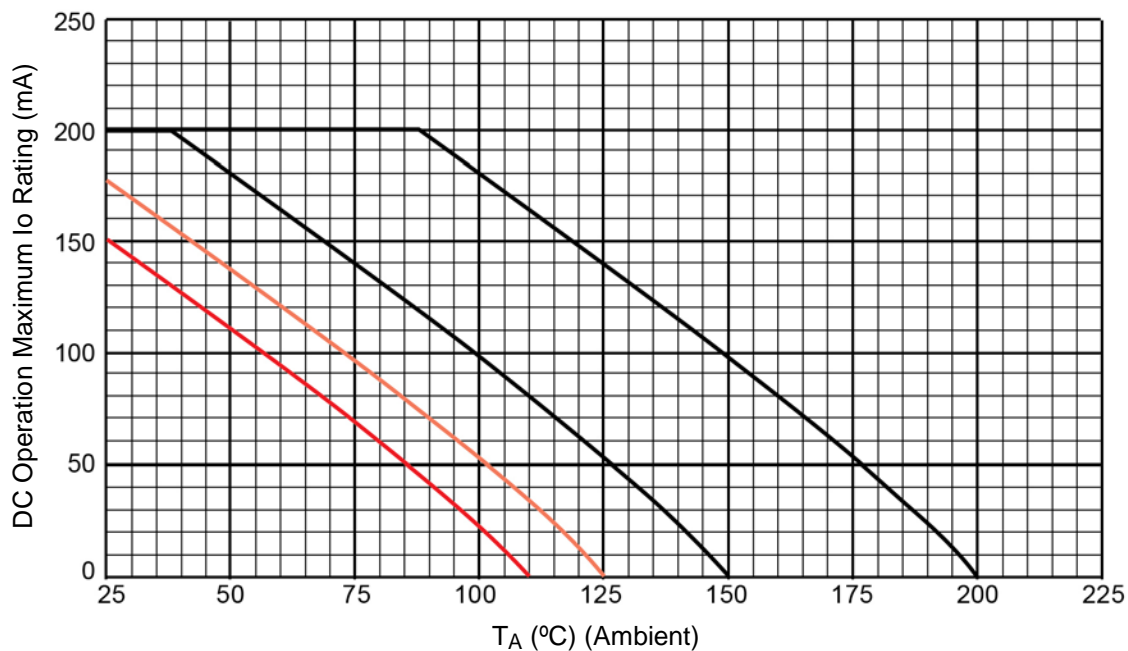
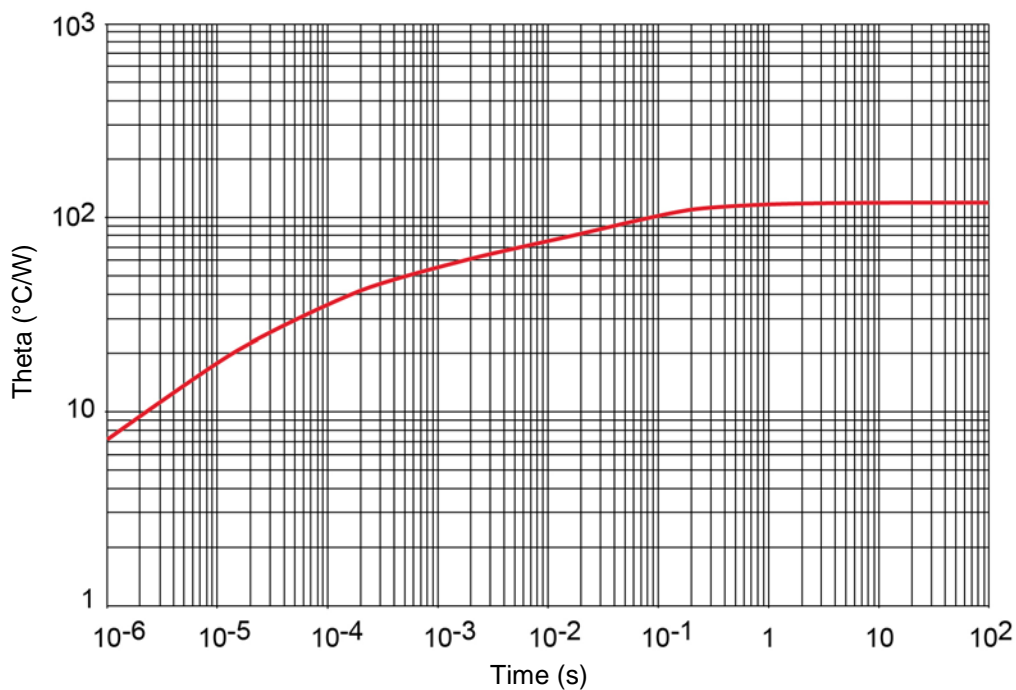
FORWARD VOLTAGE V_{F1} @ $I_F=10\text{mA}$	FORWARD VOLTAGE V_{F2} @ $I_F=100\text{mA}$	REVERSE RECOVERY TIME t_{rr} (Note 1)	FORWARD RECOVERY TIME t_{fr} (Note 2)	REVERSE CURRENT I_{R1} @ 20 V	REVERSE CURRENT I_{R2} @ 75 V	REVERSE CURRENT I_{R3} @ 20 V $T_A=150^\circ\text{C}$	REVERSE CURRENT I_{R4} @ 75 V $T_A=150^\circ\text{C}$	CAPACI- TANCE C (Note 3)	CAPACI- TANCE C (Note 4)
V	V	ns	ns	nA	μA	μA	μA	pF	pF
0.8	1.2	5	20	25	0.5	35	75	4.0	2.8

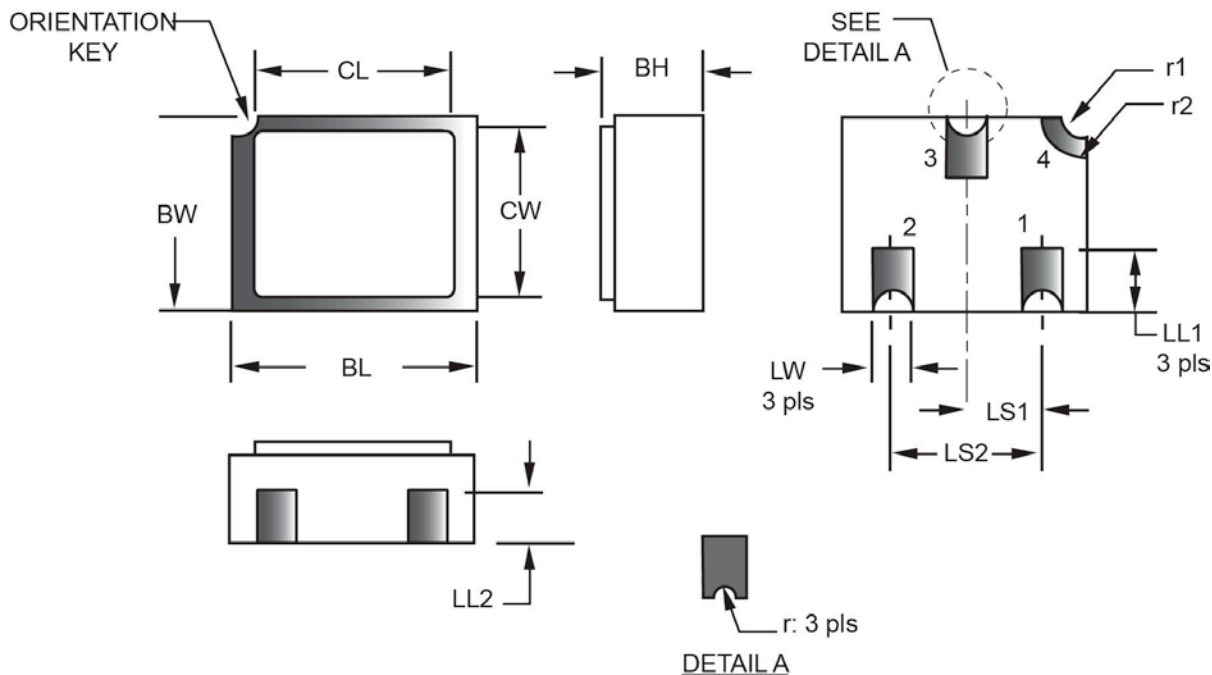
NOTE 1: $I_F = I_R = 10 \text{ mA}$, $R_L = 100 \text{ Ohms} \pm 5 \%$.

NOTE 2: $I_F = 50 \text{ mA}$.

NOTE 3: $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$, $V_{SIG} = 50 \text{ mV}$ (pk to pk).

NOTE 4: $V_R = 1.5 \text{ V}$, $f = 1 \text{ MHz}$, $V_{SIG} = 50 \text{ mV}$ (pk to pk).

GRAPHS

FIGURE 1 – Temperature – Current Derating

FIGURE 2 – Thermal Impedance

PACKAGE DIMENSIONS


Symbol	Dimensions				Note	Symbol	Dimensions				Note
	inch		millimeters				inch		millimeters		
	Min	Max	Min	Max			Min	Max	Min	Max	
BH	.046	.056	1.17	1.42		LS1	.035	.039	0.89	0.99	
BL	.115	.128	2.92	3.25		LS2	.071	.079	1.80	2.01	
BW	.085	.108	2.16	2.74		LW	.016	.024	0.41	0.61	
CL		.128		3.25		r		.008		0.20	
CW		.108		2.74		r1		.012		0.31	
LL1	.022	.038	0.56	0.97		r2		.022		.056	
LL2	.017	.035	0.43	0.89							

NOTES:

1. Dimensions are in inches. Millimeters are given for general information only.
2. Ceramic package only.
3. Hatched areas on package denote metallized areas.
4. Pad 1 = Base, Pad 2 = Emitter, Pad 3 = Collector, Pad 4 = Shielding connected to the lid.
5. In accordance with ASME Y14.5M, diameters are equivalent to Φ x symbology.