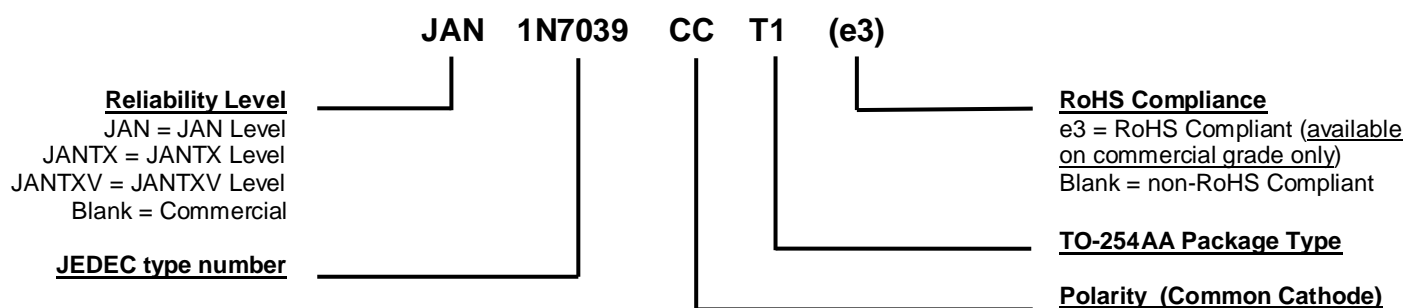


MECHANICAL and PACKAGING

- CASE: Nickel plated copper base with steel frame and ceramic feed through
- TERMINALS: Nickel plated Cu cored Alloy 52
- Pins are Hot Solder Dip (Sn63/Pb37)
- MARKING: Part number, date code, and polarity symbol
- POLARITY: See [Schematic](#) on last page
- WEIGHT: Approximately 6.5 grams
- See [Package Dimensions](#) on last page.

PART NOMENCLATURE



SYMBOLS & DEFINITIONS

Symbol	Definition
C_J	Junction Capacitance: The junction capacitance in pF at a specified frequency (typically 1MHz) and specified voltage.
I_F	Forward current: The current flowing from the p-type region to the n-type region.
I_R	Reverse Current: The dc current flowing from the external circuit into the cathode terminal at the specified voltage V_R .
T_J	Junction temperature: The temperature of a semiconductor junction.
V_F	Forward Voltage: A positive dc anode-cathode voltage the device will exhibit at a specified forward current.
V_R	Reverse Voltage: A positive dc cathode-anode voltage below the breakdown region.

ELECTRICAL CHARACTERISTICS @ $T_A = +25^\circ\text{C}$ unless otherwise noted

Parameters / Test Conditions	Symbol	Min.	Max.	Unit
OFF CHARACTERISTICS				
Forward Voltage* $I_F = 15\text{ A}$ $I_F = 35\text{ A}$ $I_F = 15\text{ A}, T_C = -55^\circ\text{C}$ $I_F = 35\text{ A}, T_C = +125^\circ\text{C}$	V_F		1.13 1.60 1.35 1.20	V
Reverse Current $V_R = 150\text{ V}$ $V_R = 150\text{ V}, T_C = +125^\circ\text{C}$	I_R		0.5 15	mA

* Pulse test: Pulse width 300 μsec , duty cycle 2%.

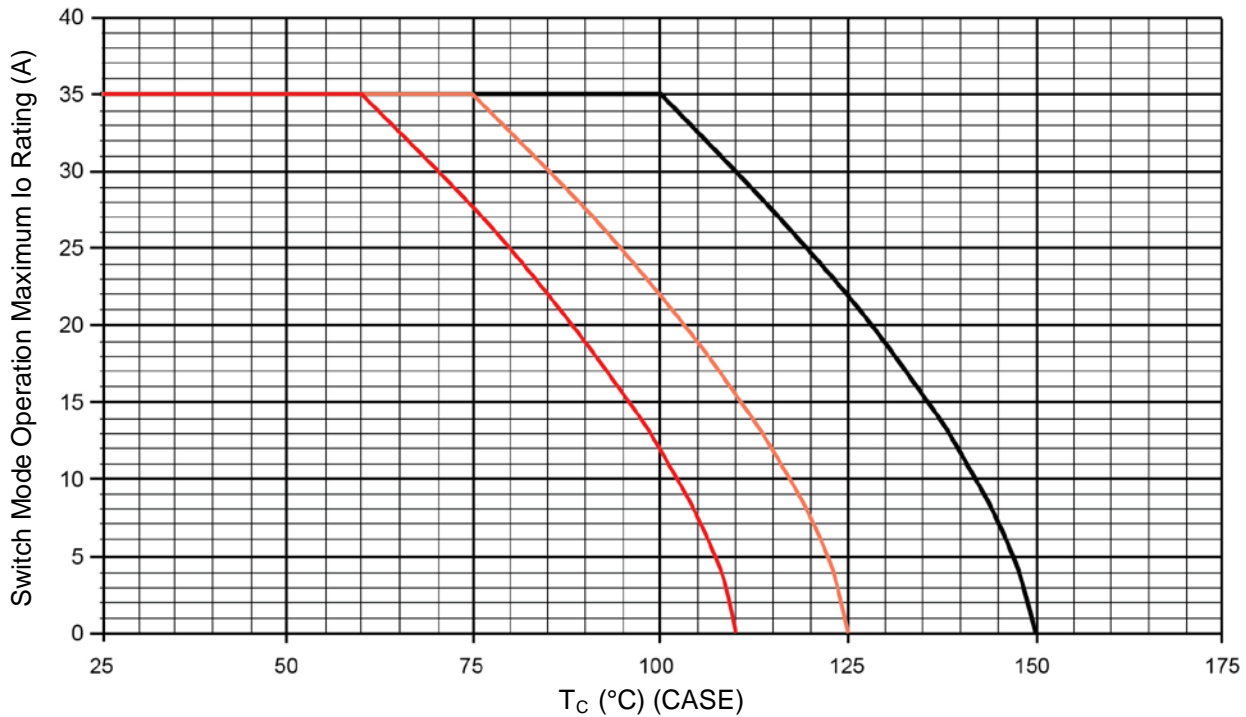
GRAPHS


FIGURE 1
Temperature-Current Derating (entire package)

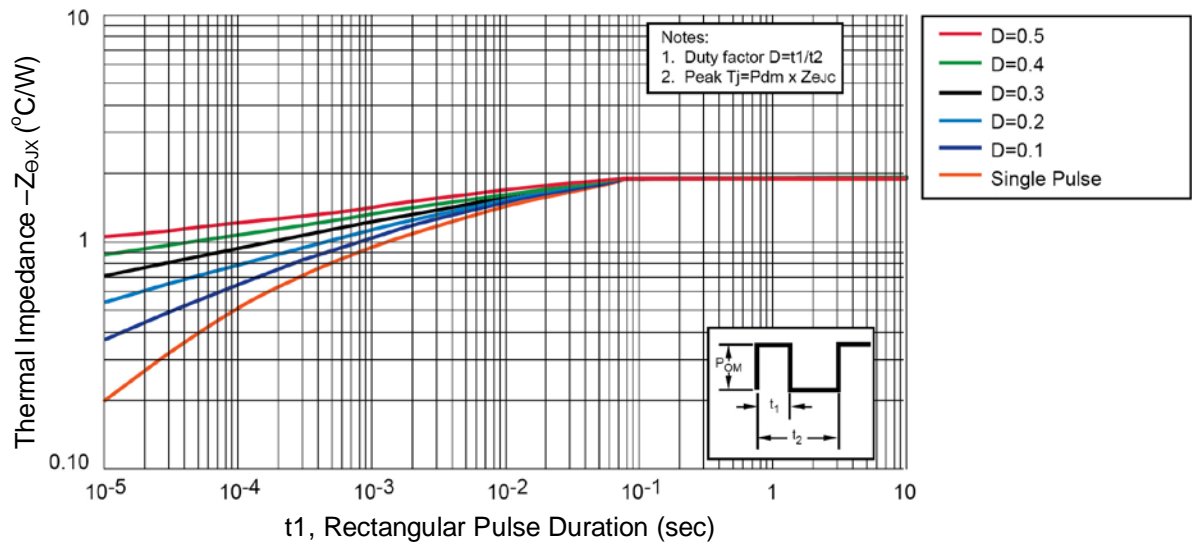
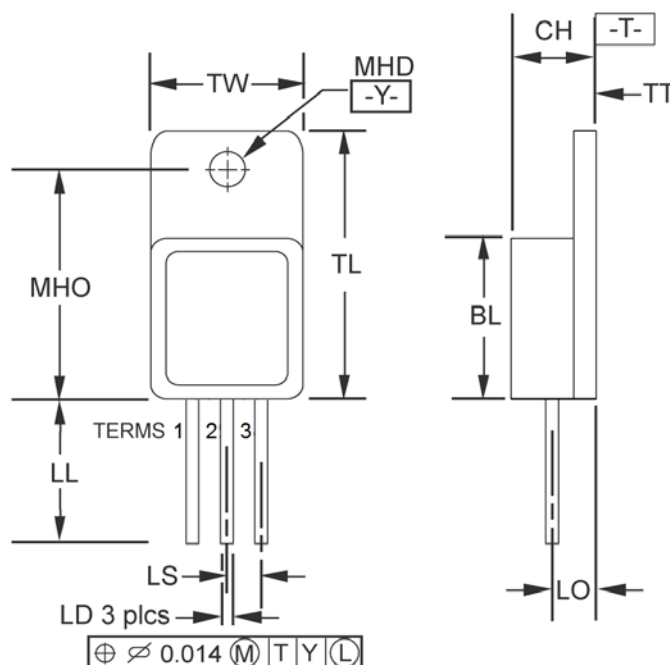
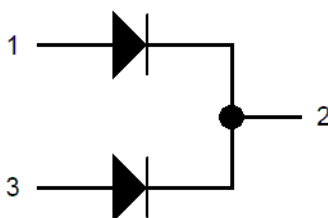


FIGURE 2
Thermal Impedance (for each leg)

PACKAGE DIMENSIONS

NOTES:

1. Dimensions are in inches.
2. Millimeters are given for information only.
3. In accordance with ASME Y14.5M, diameters are equivalent to ϕ symbolology.

Ltr	Dimensions			
	Inch		Millimeters	
	Min	Max	Min	Max
BL	0.535	0.545	13.59	13.84
CH	0.249	0.260	6.32	6.60
LD	0.035	0.045	0.89	1.14
LL	0.510	0.570	12.95	14.48
LO	0.150 BSC		3.81 BSC	
LS	0.150 BSC		3.81 BSC	
MHD	0.139	0.149	3.53	3.78
MHO	0.665	0.685	16.89	17.40
TL	0.790	0.800	20.07	20.32
TT	0.040	0.050	1.02	1.27
TW	0.535	0.545	13.59	13.84

SCHEMATIC


TERM 1 = ANODE
 TERM 2 = CATHODE
 TERM 3 = ANODE