

Product Specification

Surge Type

MBRH30150CT/MBRFH30150CT

Construction : Schottky Barrier Rectifier

Application : For General Purpose

(Manufacturer) :

Surge Components Inc.

Prepared on April. 17th, 2012

Prepared: R & D Department

Approval: QRA Department



1. Anode 2. Cathode 3. Anode

SCHOTTKY BARRIER RECTIFIER

30 AMPERES

150VOLTS

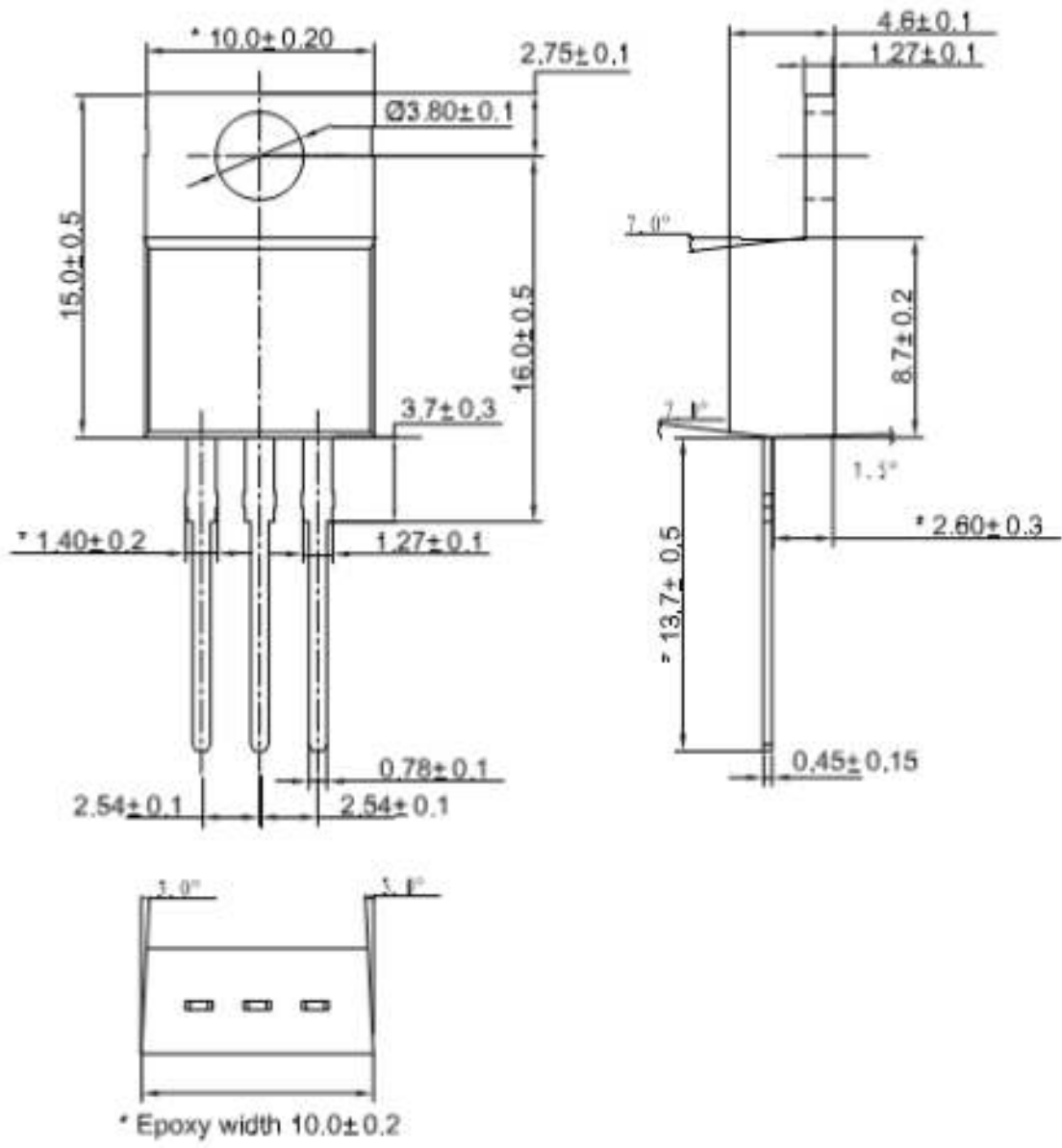
Low Vf <0.85V(15A)

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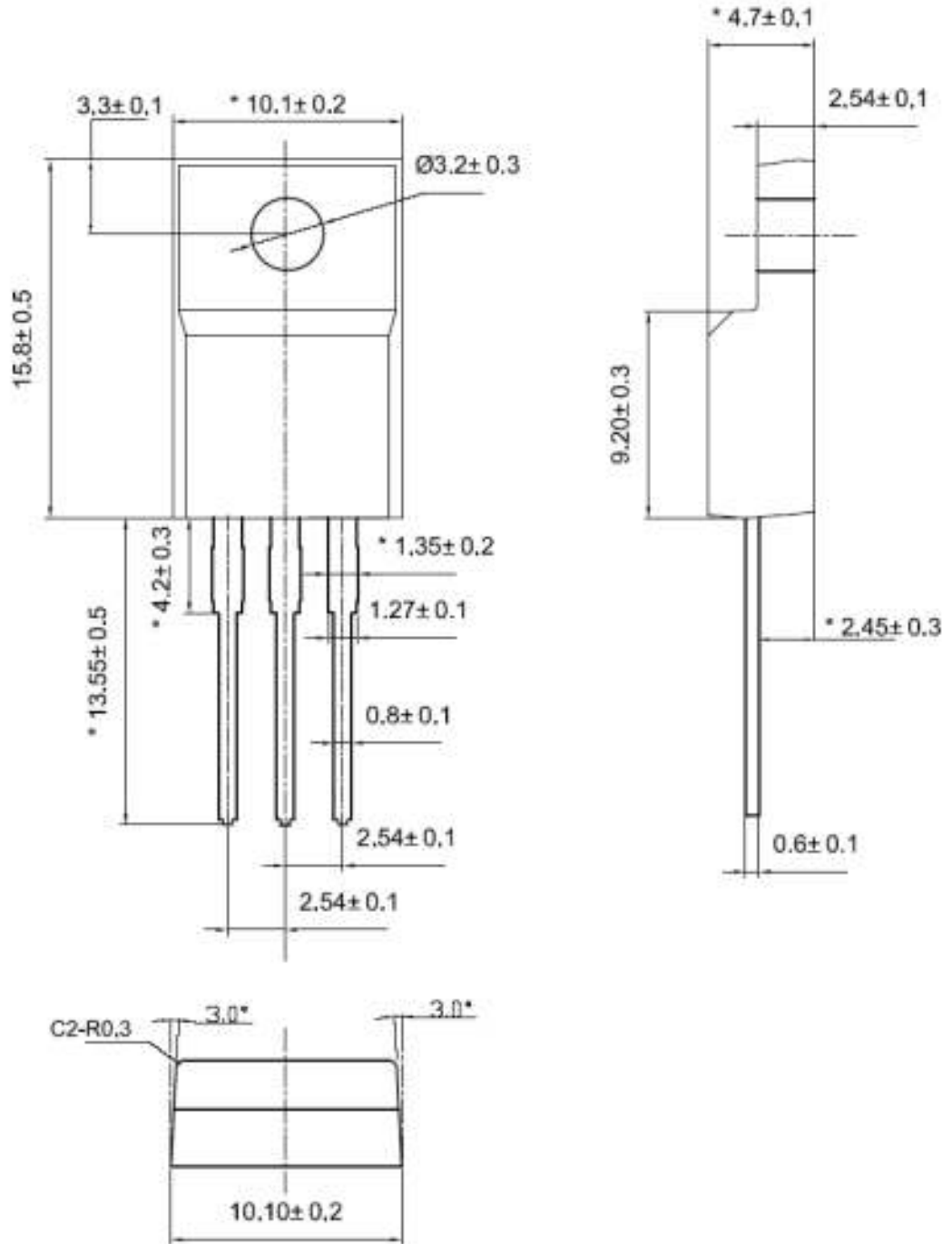
1. Package Outline
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1. Package Outline (TO220-AB)

UNIT:mm



Package Outline (TO220F-AB)



Lead Frame Material : Copper


Plating: Pure Tin Plating

2. MARKING



1. Part Name : MBRH30150CT(TO220)
MBRFH30150CT(TO220F)

2. Logo Mark: 

3. Polarity: 



3.Features& Mechanical Characteristics Features

- Plastic package has underwriters Laboratory Flammability Classification 94V-0
• Dual rectifier construction, positive center tap
• Metal of silicon rectifier, majority carrier conduction
• Low forward voltage, high efficiency
• Guarding for over voltage protection
• For use in low voltage, high frequency inverters,
• Free wheeling, and polarity protection applications

Mechanical Characteristics

- Case: Epoxy, Molded
• Weight: 1.9grams (approximately)
• Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
• Lead Temperature for Soldering Purposes: 260°C Max.for10 sec
• Shipped 50 units per plastic tube

4.Maximum Ratings and Electrical Characteristics

Table with 5 columns: PARAMETER, TEST CONDITIONS, SYMBOL, MBR(F)H30150CT, UNIT. Rows include Maximum repetitive peak reverse voltage, Working peak reverse voltage, Maximum DC blocking voltage, etc.

Thermal Characteristics Ta=25°C unless otherwise noted

Table with 5 columns: Symbol, Parameter, Max (TO220AB), Max (TO220AB), Unit. Rows include RθJC, RθJA.

Note:

- 1. Screw mounting with 4-40 screw, where washer diameter is ≤4.9mm(0.19")
2. Pulse test:300us pulse width,1% duty cycle



5. Rating and Characteristic Curves

(TA = 25 °C unless otherwise noted)

FIG.1- FORWARD CURRENT DERATING CURVE

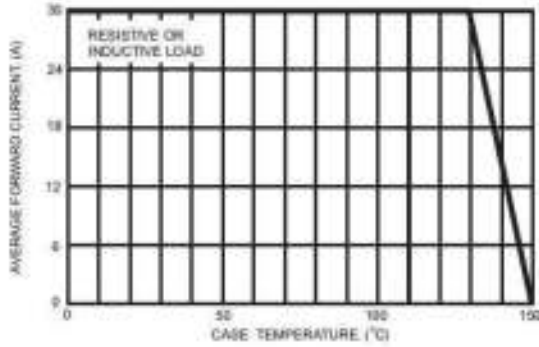


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

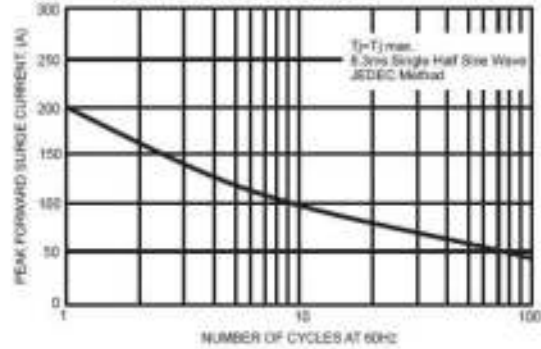


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

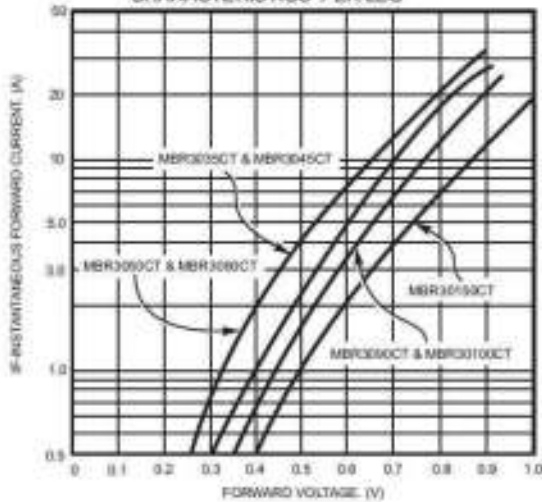


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER LEG

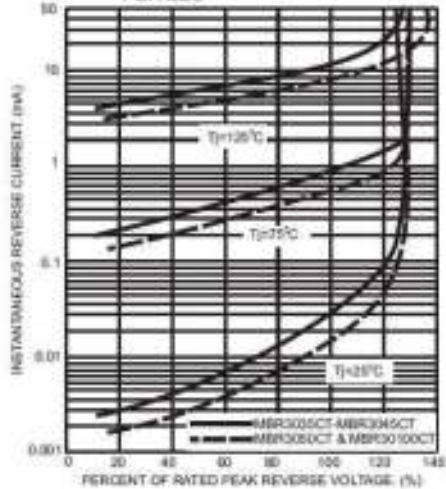


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

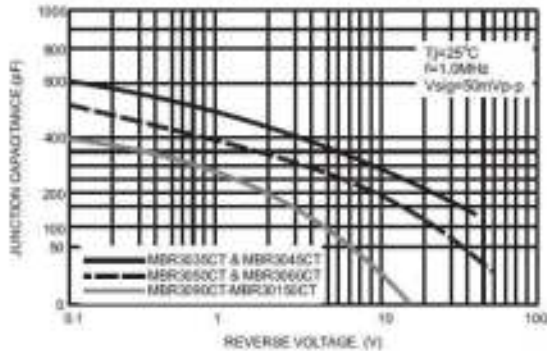


FIG.6- TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG

