

/ Descriptions

TO-220S

Schottky diode in a TO-220S Plastic Package.

/ Features

Low forward voltage drop, low power losses, High efficiency operation.

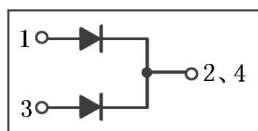
/ Applications

OR-ing

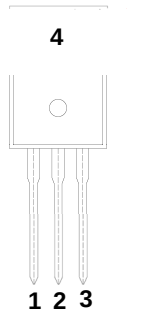
DC-DC

For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters and reverse battery protection.

/ Equivalent Circuit



/ Pinning



PIN1 Anode

PIN 2 Cathode

PIN 3 Anode

PIN 4 NC

/ h_{FE} Classifications & Marking

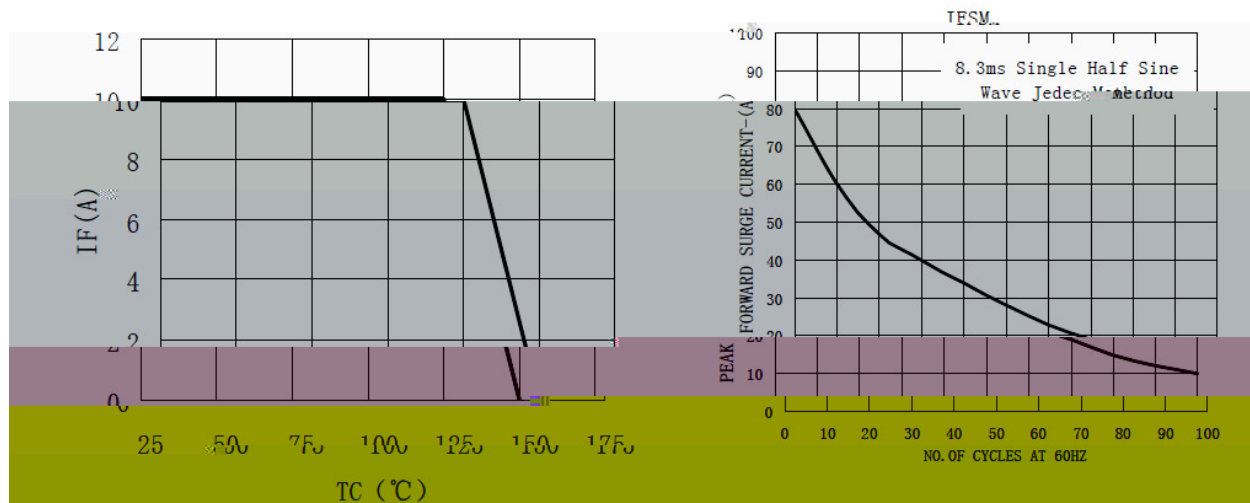
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RSM} V_{DC}	150	V
RMS Reverse Voltage	V_{RMS}	105	V
Average Rectified Forward Current	$I_{F(AV)}$	2X5	A
Non Repetitive Peak Surge Current	I_{FSM}	80	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	3.5	/W
Junction and Storage Temperature Range	T_j T_{stg}	-55~+150	

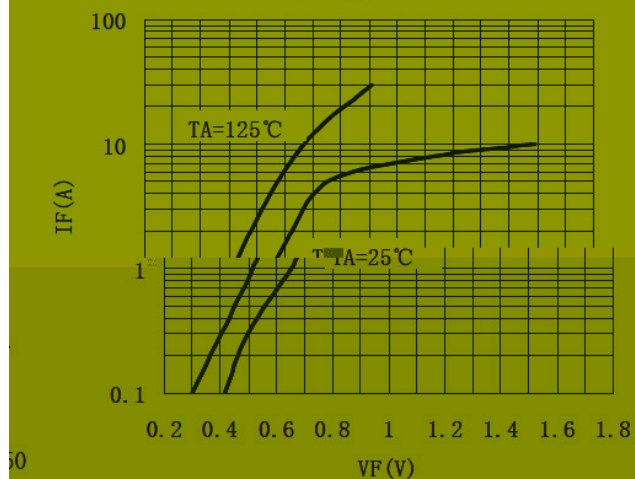
Parameter	Symbol	Test Conditions	Min
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/ Electrical Characteristic Curve

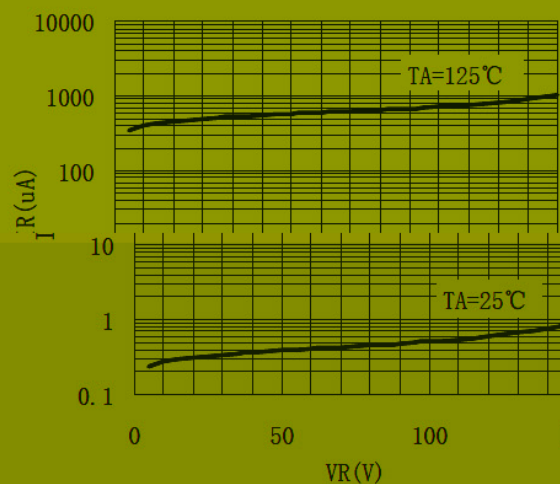
IF - TC



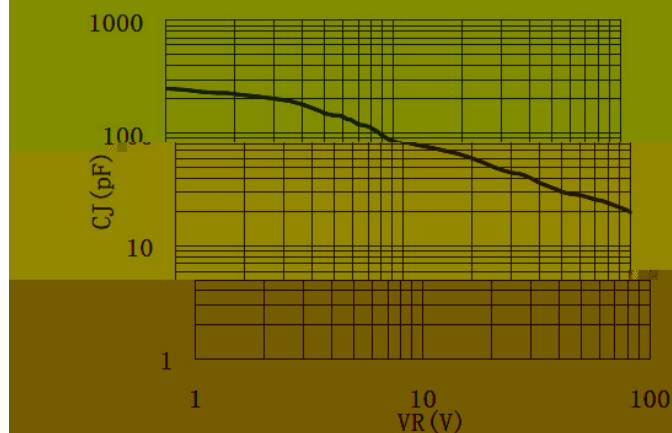
IF - VF



IR - VR



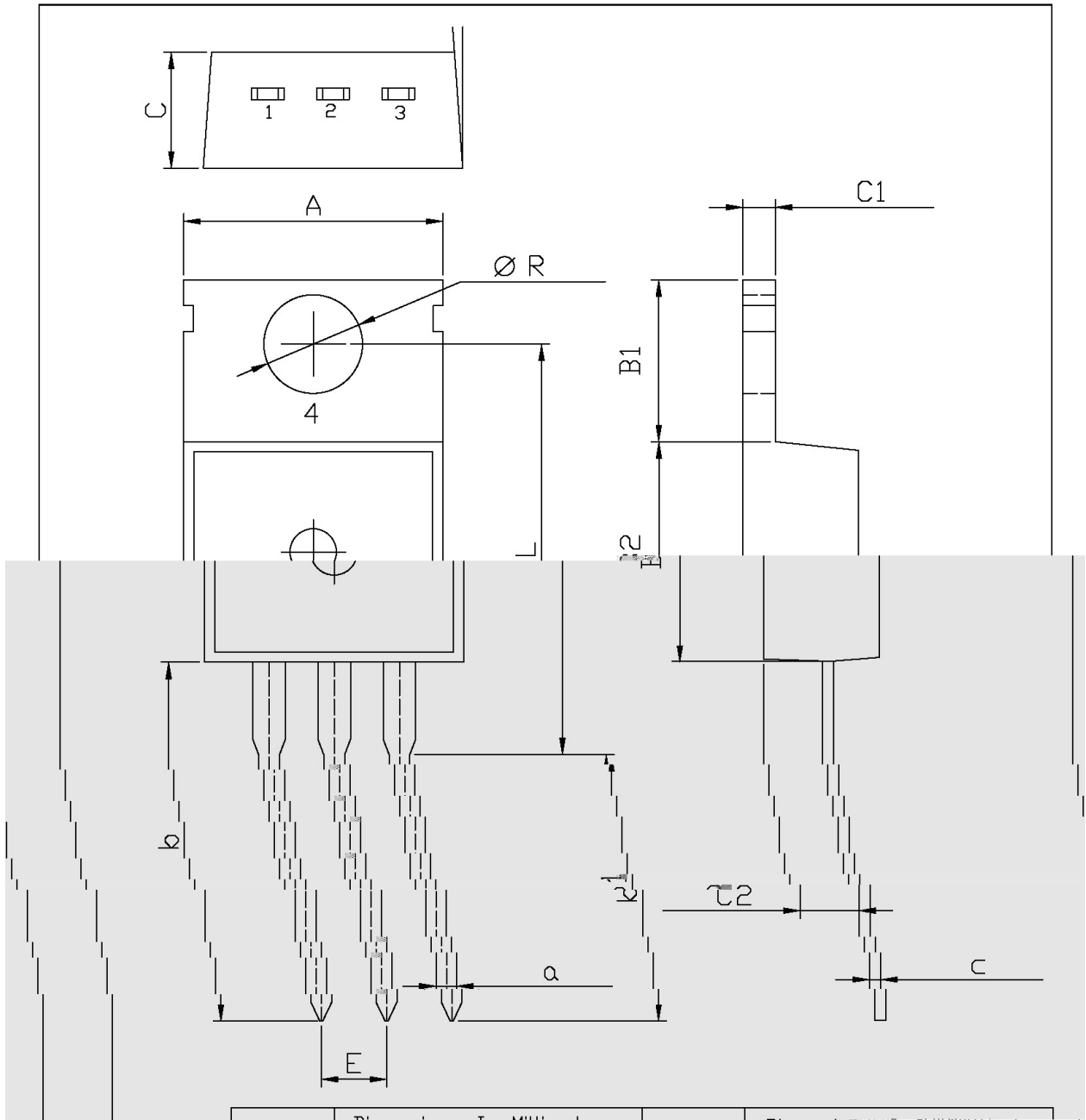
CJ - VR



/ Package Dimensions

TO-220S

Unit: mm

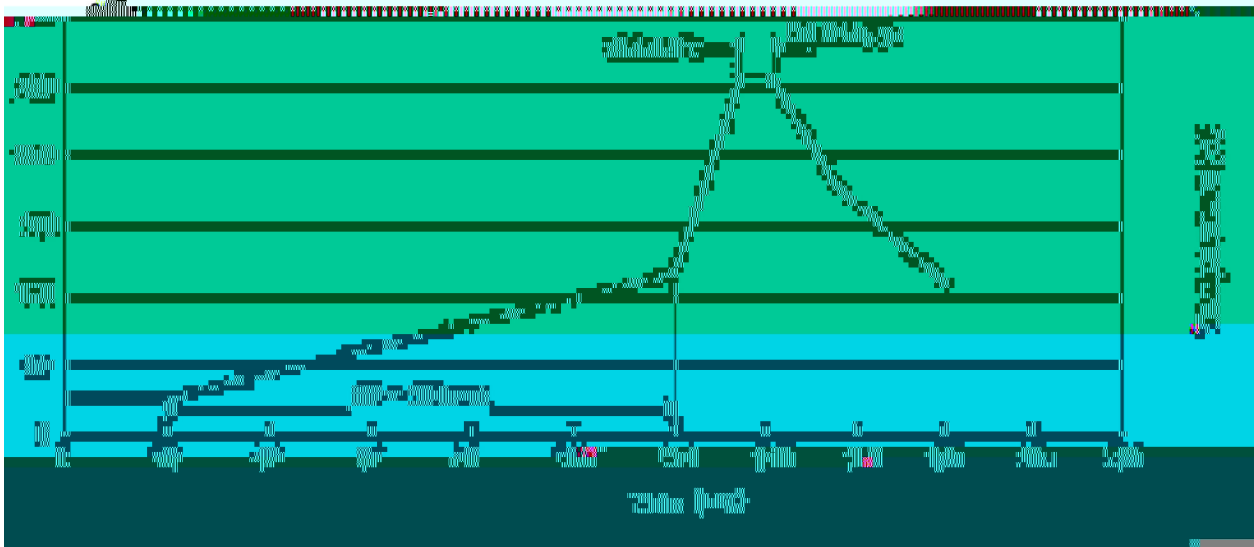


Dimensions in Millimeters			Dimensions in Millimeters		
Symbol	Min.	Max.	Symbol	Min.	Max.

LV10150JCT

Rev.E Mar.-2016

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10

/sec.
- 1.Preheating:25~150

, Time:60~90sec.
- 2.Peak Temp.:255±5

, Duration:5±0.5sec.
3. Cooling Speed: 2~10

/sec.

/ Resistance to Soldering Heat Test Conditions

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ Packaging SPEC.

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-220S	50	20	1000	5	5000	532×31.4×5.5	555×164×50	575×290×180

/ Notices