/ Descriptions

TO-220AC

Schottky Barrier Diode in a TO-220AC Plastic Package.

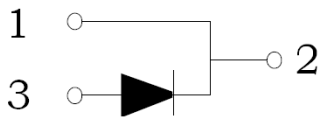
/ Features

Low power loss,high efficiency .

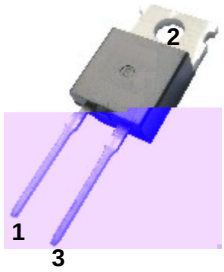
/ Applications

For use in low voltage,high frequency inverters, free wheeling, and polarity protection applications.

/ Equivalent Circuit



/ Pinning



PIN1 2 Cathode PIN 3 Anode

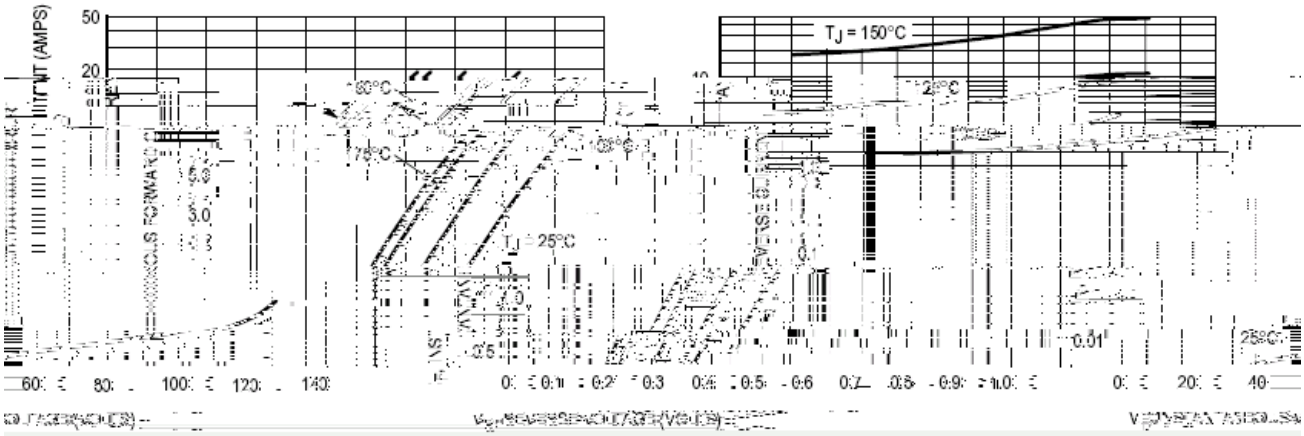
/ h_{FE} Classifications & Marking

See Marking Instructions

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
RMS Voltage	V_R	100	V
Average Forward Rectified Current	$I_{F(AV)}$	10	A
Peak forward surge current	I_{FSM}	150	A
Typical Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.0	/W
Junction Temperature Range	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	I_R=10μA	100			V
Forward Voltage	V_F	I_F=10A			0.7	V
		I_F=10A T_C=125			0.8	V
		I_F=20A			0.95	V
		I_F=20A T_C=125			0.85	V
Peak Instantaneous Reverse Current	I_{RM}	V_R=100V			0.1	mA
		V_R=100V T				

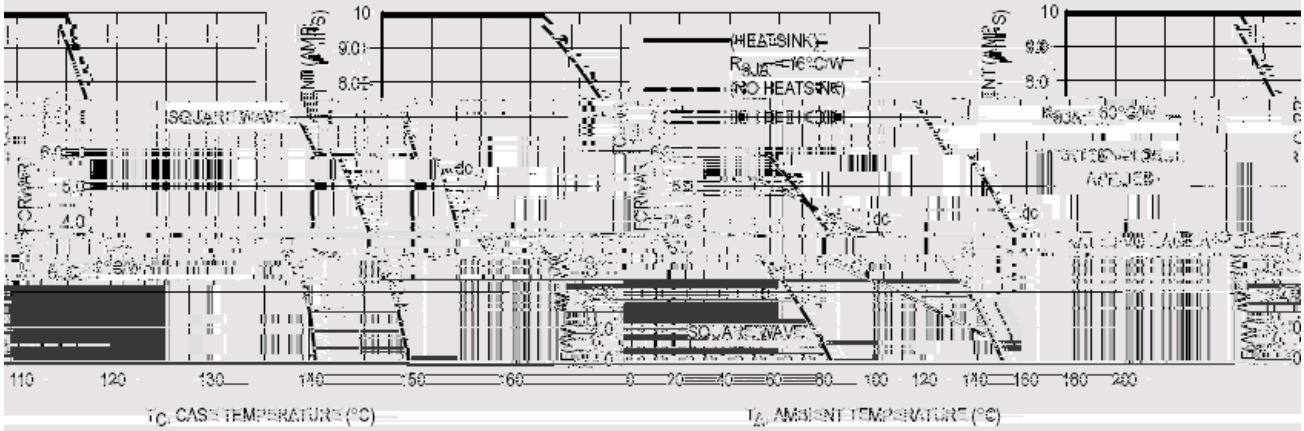
/ Electrical Characteristic Curve



orward Voltage

Figure 2. Typical Reverse Current

Figure 1. Typical F

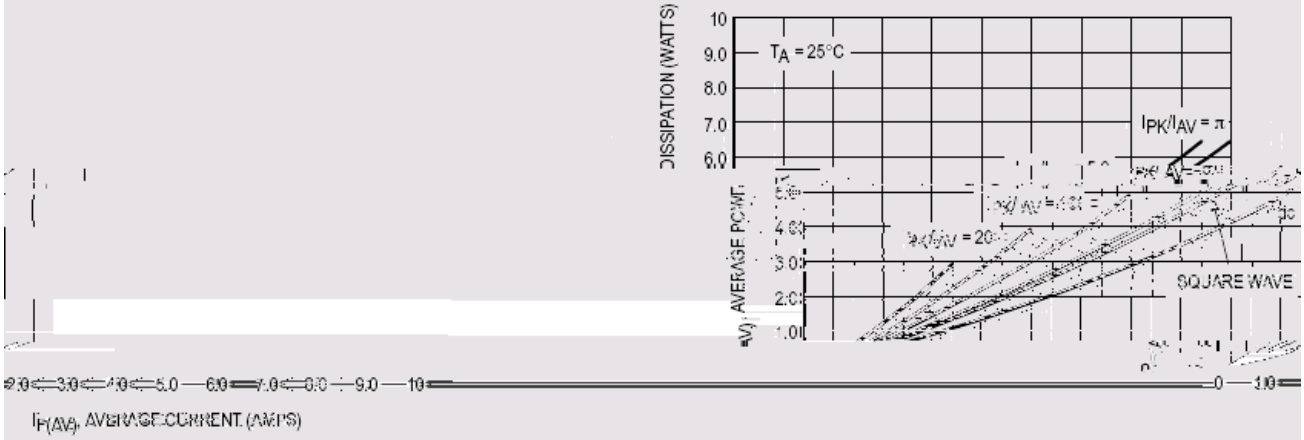


T_C, CASE TEMPERATURE (°C)

T_A, AMBIENT TEMPERATURE (°C)

Figure 3. Current Derating, Case

Figure 4. Current Derating, Ambient

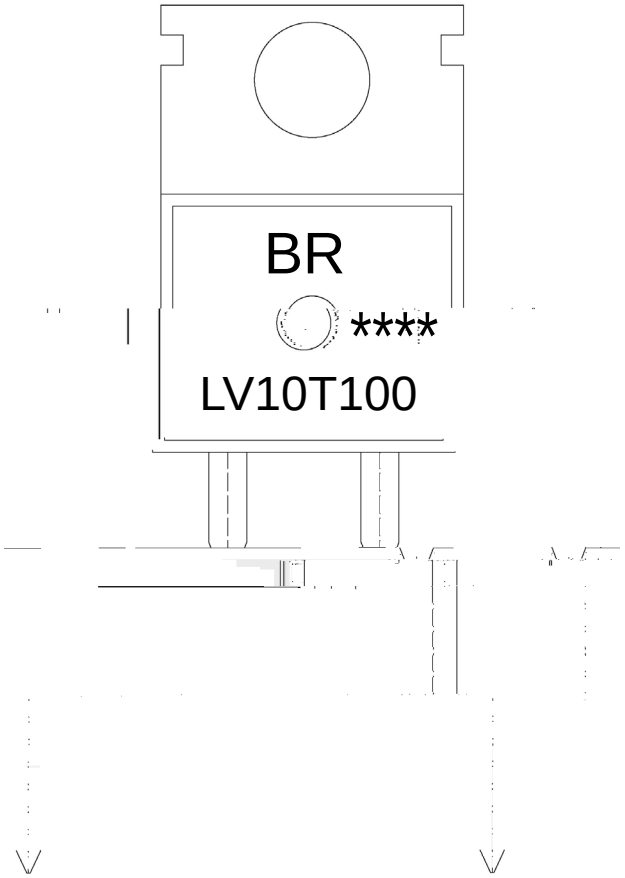


$I_{F(AV)}$, AVERAGE CURRENT (AMPS)

gure 5. Forward Power Dissipation

Fig

/ Marking Instructions



BR

LV10T100

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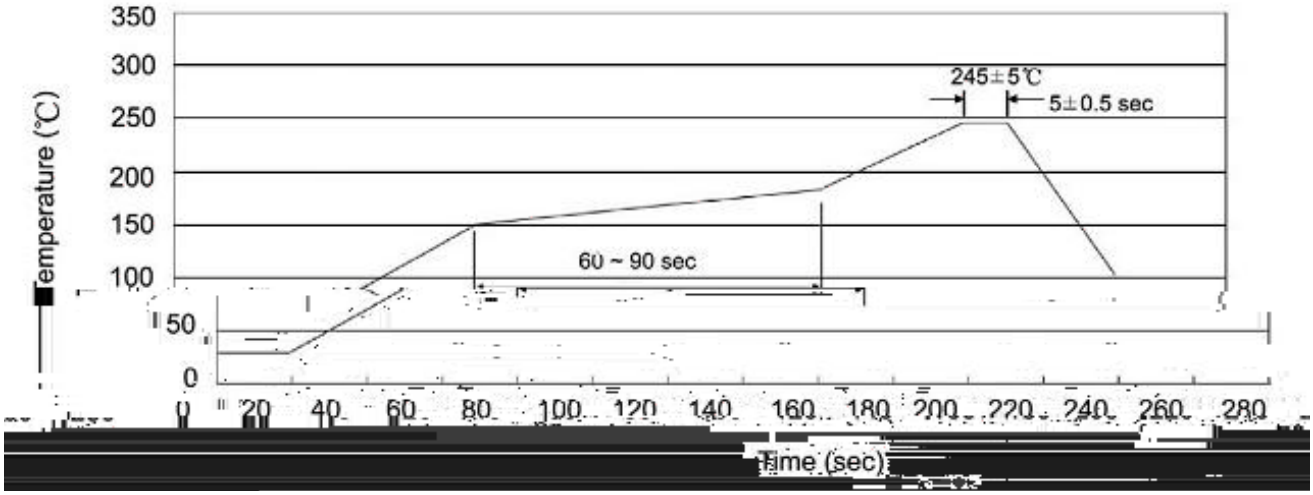
Note:

BR:	Company Code
LV10T100	Product Type.
****:	Lot No. Code, code change with Lot No.

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



			Note:
1	150 180	60 90sec;	1.Preheating:150~180 , Time:60~90sec.
2	255±5	5±0.5sec;	2.Peak Temp.:255±5 , Duration:5±0.5sec.
3		2 10 /sec.	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.

/ BULK

Package Type	Units					Dimension		(unit mm³)
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F/AC	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension		(unit mm³)
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F/AC	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices