

/ Descriptions

TO-252 $\dot{M} \dot{M} \dot{E} \approx g^{\sim} \parallel \nabla$

Schottky Barrier Diode in a TO-252 Plastic Package.

/ Features

$$\alpha^* \quad b \models \perp \quad \dot{\tau} \quad \tau \quad \perp \quad \wedge \quad H^* \quad b \quad \cap \quad V_F(\text{typ})=0.2V \quad \perp \quad \psi \quad \tilde{a} \quad \alpha \quad \square \quad \psi \quad \tilde{h} \quad \sigma$$

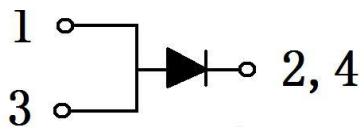
High Forward Surge Capability, Ultra Low Forward Voltage Drop $V_F(\text{typ})=0.2\text{V}$, Excellent High Temperature Stability.

/ Applications

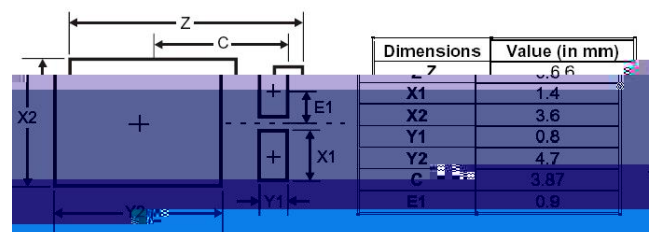
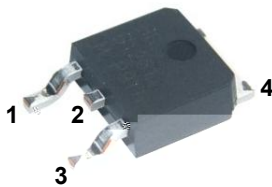
$\hat{H}^{\text{eff}}_{\text{eff}} \approx \frac{1}{2} \left(\hat{H}_0 + \hat{H}_1 \right) + \frac{1}{4} \left(\hat{H}_0 - \hat{H}_1 \right) \left(\hat{H}_0 + \hat{H}_1 \right) + \dots$

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

/ Equivalent Circuit



/ Pinning



PIN1 x Anode PIN 2,4 x Cathode PIN 3 x Anode

Suggested Pad layout

/ h_{FE} Classifications & Marking

ﺽ ﻡ ﺎ ﺏ ” See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage Peak Reverse Voltage	V_{RRM} V_{RWM} V_{RM}	45	V
RMS Reverse voltage	$V_{R(RMS)}$	31.5	V
Average Rectified Output Current	I_O	10	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	250	A
Junction Temperature Range	$T_{j\ MAX}$	150	
Storage Temperature Range	T_{stg}	-55 150	
Typical Thermal Resistance	$R_{\theta JA}$ Note 1	73	/W

/ Electrical Characteristics(Ta=25)

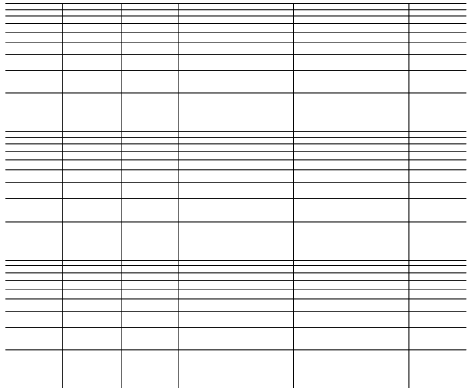
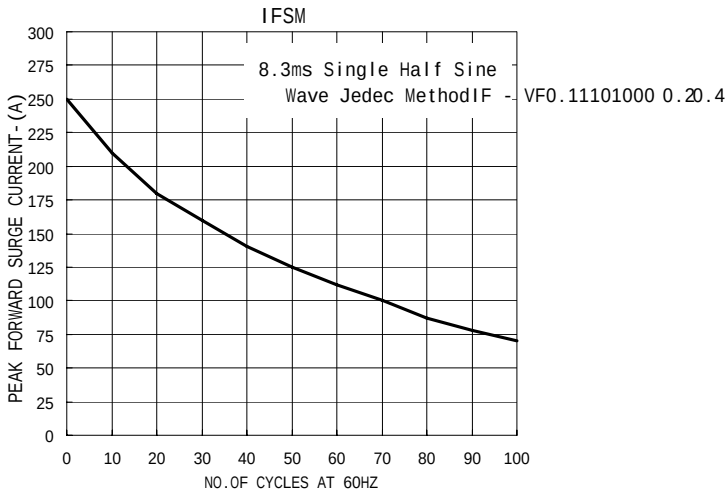
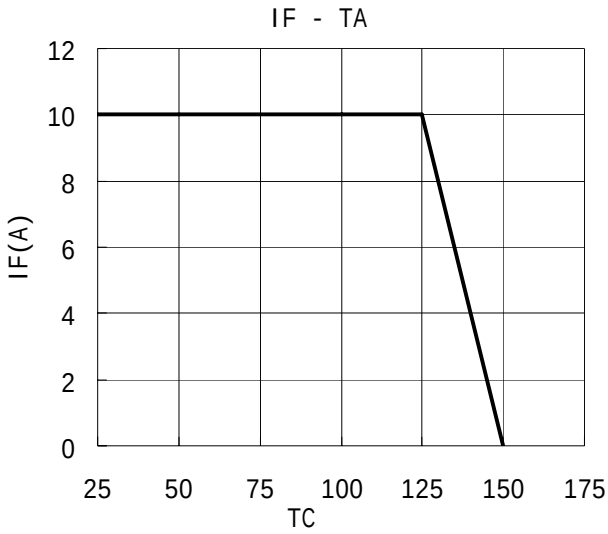
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V _R	I _R =0.5mA	45			V
Forward voltage	V _F	I _F =2A T _J =25		0.33	0.38	V
		I _F =2A T _J =125		0.20		V
		I _F =10A T _J =25		0.42	0.46	V
		I _F =10A T _J =125		0.35		V
Instantaneous Reverse Current	I _R Note 2	V _R =45V T _J =25		0.06	0.12	mA
		V _R =45V T _J =100			12	mA
		V _R =45V T _J =125			50	mA

└ 2Notes

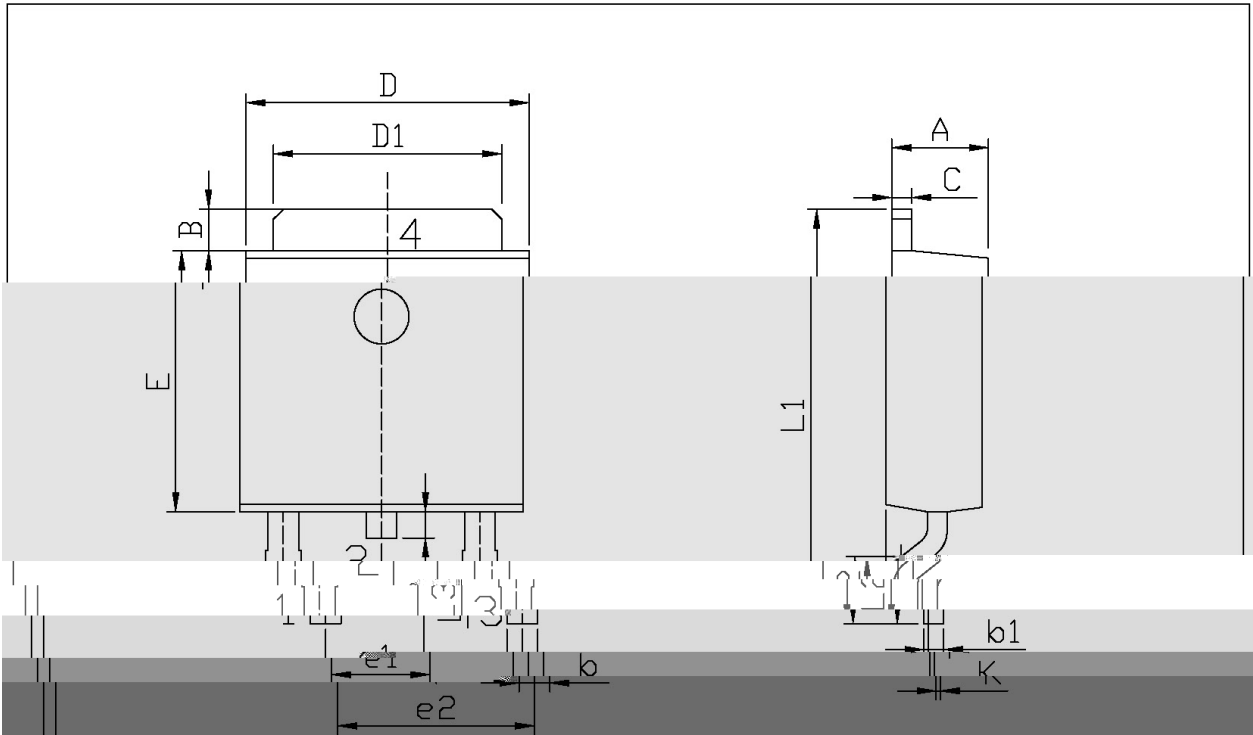
41 IU07 SFE 1 5' n قف ا و H اّ p ` y p /FR-4 PCB, 2oz. Copper, minimum recommended pad layout per.

51 AE 7 || ~ [0B] 11 : H J IQ Ó , ° N₅ ♪ Ÿ Z 2Short duration pulse test used to minimize self-heating effect.

/ Electrical Characteristic Curve



/ Package Dimensions

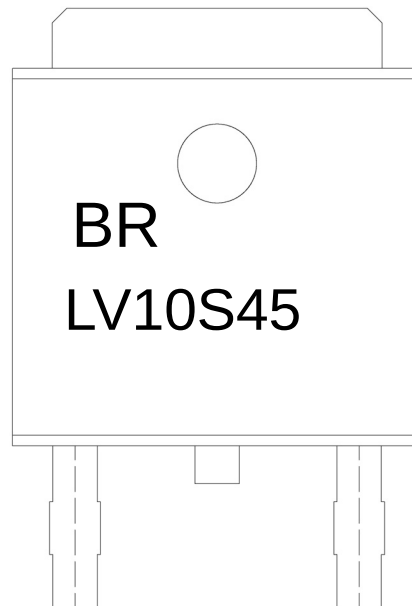


单位: mm

Dimensions In Millimeters			Dimensions In Millimeters		
Symbol	Min	Max	Symbol	Min	Max
A	2.20	2.40	E	5.95	6.25
B	0.95	1.25	e1	2.24	2.34
b	0.50	0.70	e2	4.43	4.73
b1	0.45	0.55	L1	0.45	0.95
C	0.45	0.55	L2	1.25	1.50
D	6.45	6.75	L3	0.60	0.80
D1	5.10	5.50	K	0.00	0.10

T0-252

/ Marking Instructions



公司代码

EU

公司代码

0Y43V78

公司代码

公司代码 公司代码

Note:

BR:

Company Code

0Y43V78

Product Type Code.

****:

Lot No. Code, code change with Lot No.

() / **Temperature Profile for IR Reflow Soldering(Pb-Free)**