

# LV20T60E

Rev.G Oct.-2018

## / Descriptions

TO-277

TO-277 Plastic package Schottky diode .

## / Features

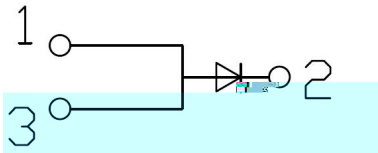
$$V_F(\text{typ})=0.16\text{V}$$

High Forward Surge Capability, Ultra Low Forward Voltage Drop  $V_F(\text{typ})=0.16\text{V}$ , Excellent High Temperature Stability. HF Product.

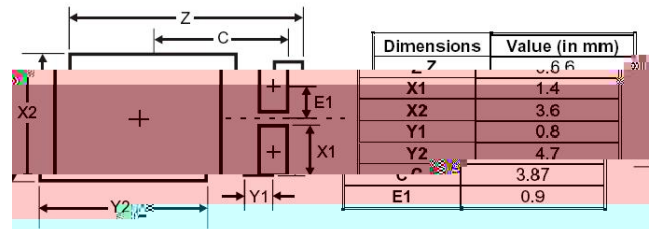
## / Applications

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

## / Equivalent Circuit



## / Pinning



PIN1 Anode PIN 2 Cathode PIN 3 Anode

Suggested Pad layout

## / h<sub>FE</sub> Classifications & Marking

See Marking Instructions.

**/ Absolute Maximum Ratings(Ta=25 )**

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage Peak Reverse Voltage	$V_{RRM}$ $V_{RWM}$ $V_{RM}$	60	V
RMS Reverse voltage	$V_{R(RMS)}$	42	V
Average Rectified Output Current	$I_O$	20	A
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	300	A
Repetitive peak avalanche power	$P_{ARM}$	30000	W
Junction Temperature Range	$T_{j MAX}$	150	
Storage Temperature Range	$T_{stg}$	-55 150	
Typical Thermal Resistance	$R_{JA}$ Note 1	73	/W

**/ Electrical Characteristics(Ta=25 )**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_R$	$I_R=1mA$	60			V
Forward voltage	$V_F$	$I_F=2A$ $T_J=25$		0.28	0.35	V
		$I_F=2A$ $T_J=125$		0.16		V
		$I_F=20A$ $T_J=25$		0.44	0.50	V
		$I_F=20A$ $T_J=125$		0.40		V
Instantaneous Reverse Current	$I_R$ Note 2	$V_R=60V$ $T_J=25$		300	500	uA
		$V_R=60V$ $T_J=100$		30	100	mA

/Notes

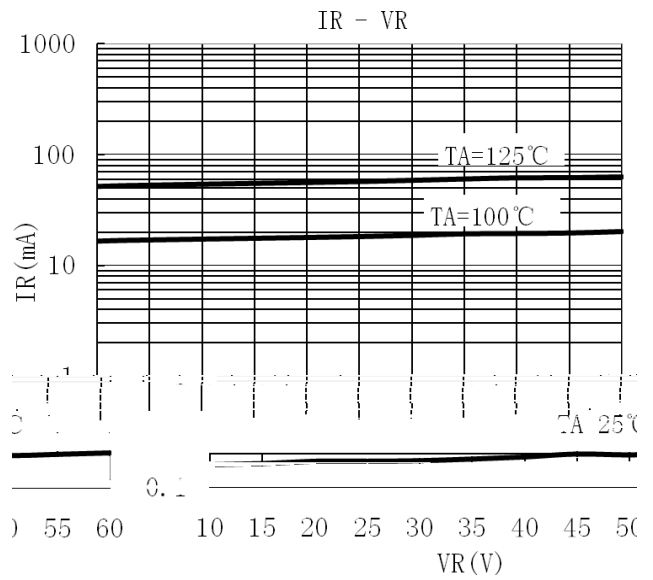
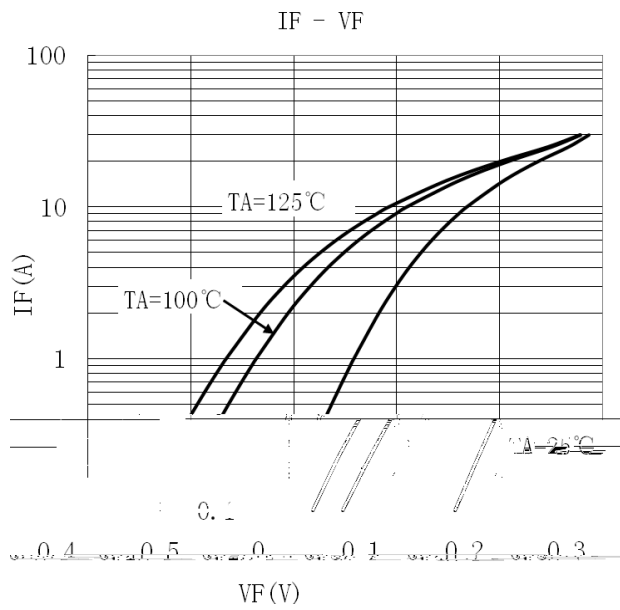
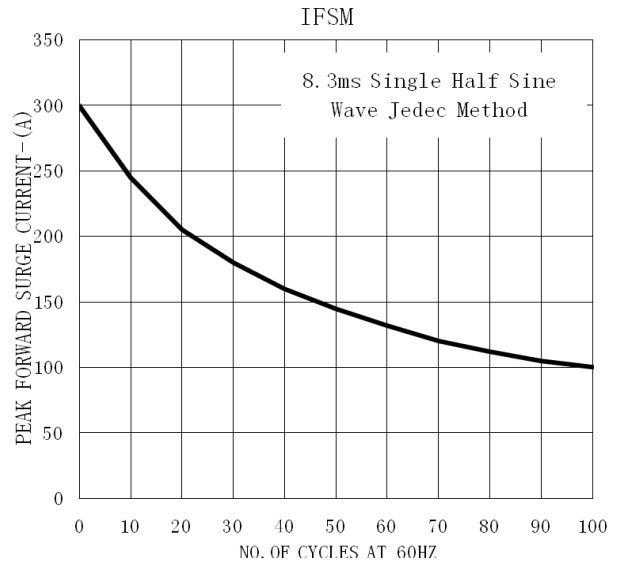
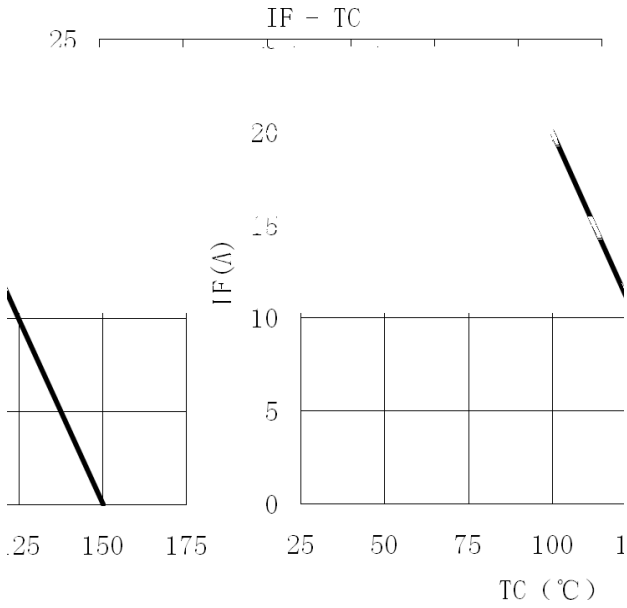
1. FR-4 PCB 2  
layout per.

/FR-4 PCB, 2oz. Copper, minimum recommended pad

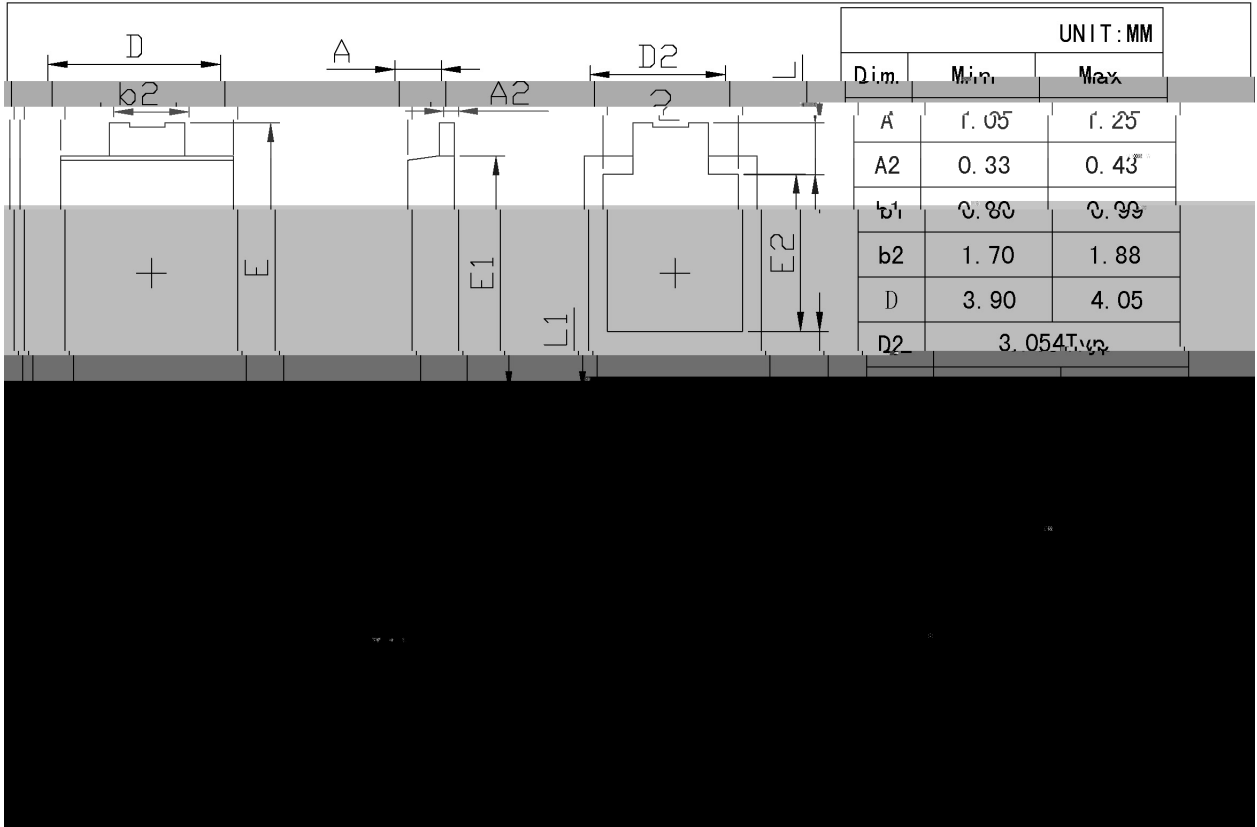
2.  
effect.

/Short duration pulse test used to minimize self-heating

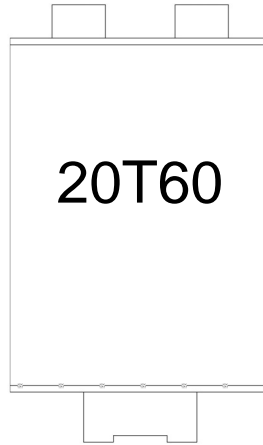
**/ Electrical Characteristic Curve**



/ Package Dimensions



**/ Marking Instructions**



20T60

\*\*\*\*

Note:

20T60

Product Type.

\*\*\*\*:

Lot No. Code, code change with Lot No.

**LV20T60E**  
Rev.G Oct.-2018