


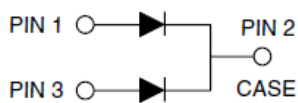
## 1、Description

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

## 2、Features

- Low Forward Voltage Drop
- High frequency operation
- High purity ,high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Low powerlosses
- Soft, Fast Switching Capability

## 3、Pinning information

PIN	Description	Simplified outline	Symbol
1	Anode ( A )	 TO-220	
2	Cathode( K )		
3	Anode ( A )		
tab	Cathode( K )		

## 4、Quick reference data

SYMBOL	PARAMETER	MAX	UNIT
$V_{RRM}$	Repetitive peak off-state voltages	200	V
$I_{F(AV)}$	Maximum average forward rectified current	20	A
$I_{FSM}$	Peak forward surge current,	160	A

## 5、Limiting value

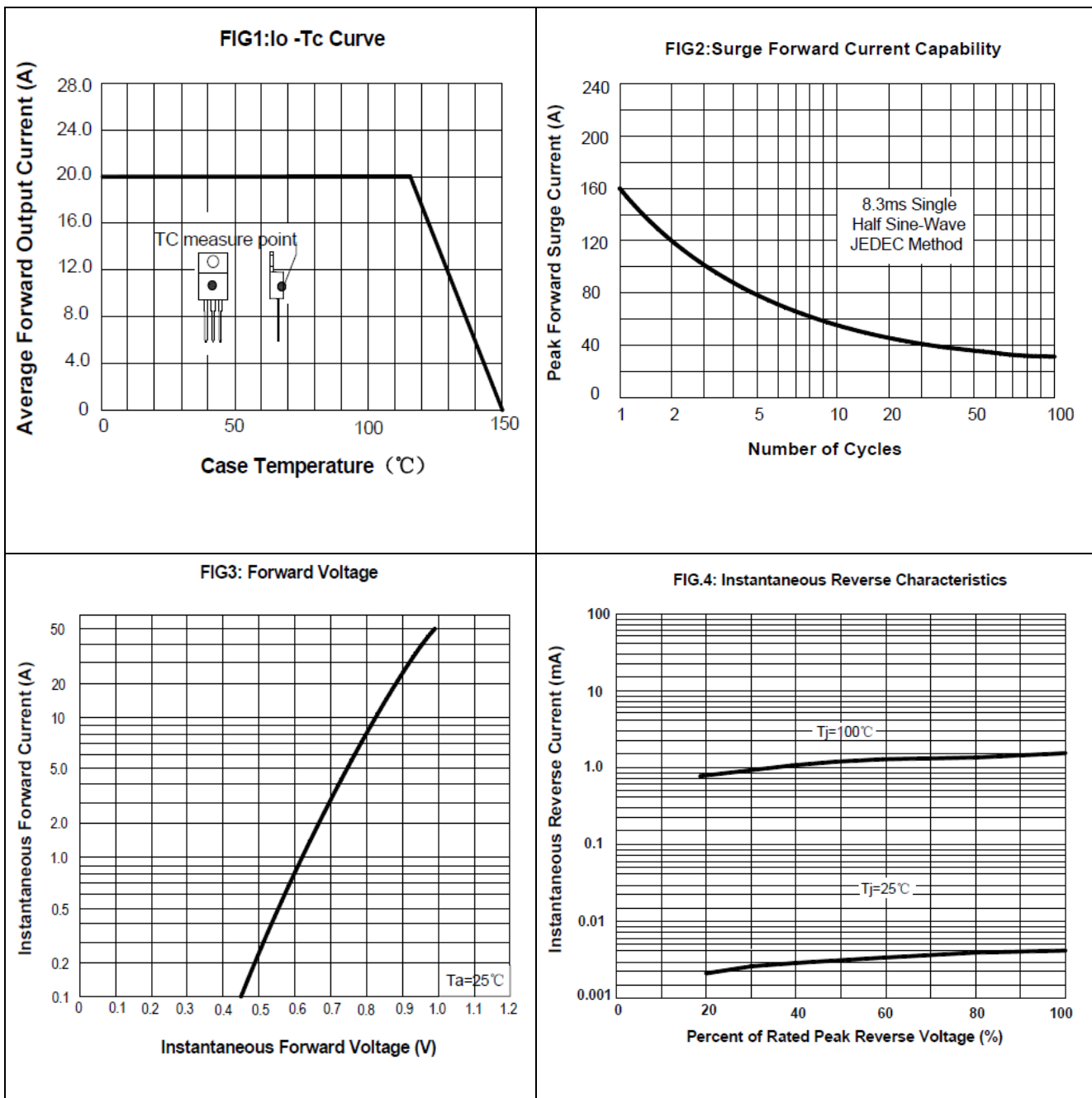
Ratings at 25°C ambient temperature unless otherwise specified.

SYMBOL	PARAMETER	MIN	MAX	UNIT
$V_{RRM}$	Maximum repetitive peak reverse voltage	-	200	V
$I_{F(AV)}$	Maximum average forward rectified current	-	10 x 2	A
$I_{FSM}$	Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	-	160	A
$T_{stg}$	Storage temperature	-55	150	°C
$T_j$	Operating junction temperature	-55	150	°C

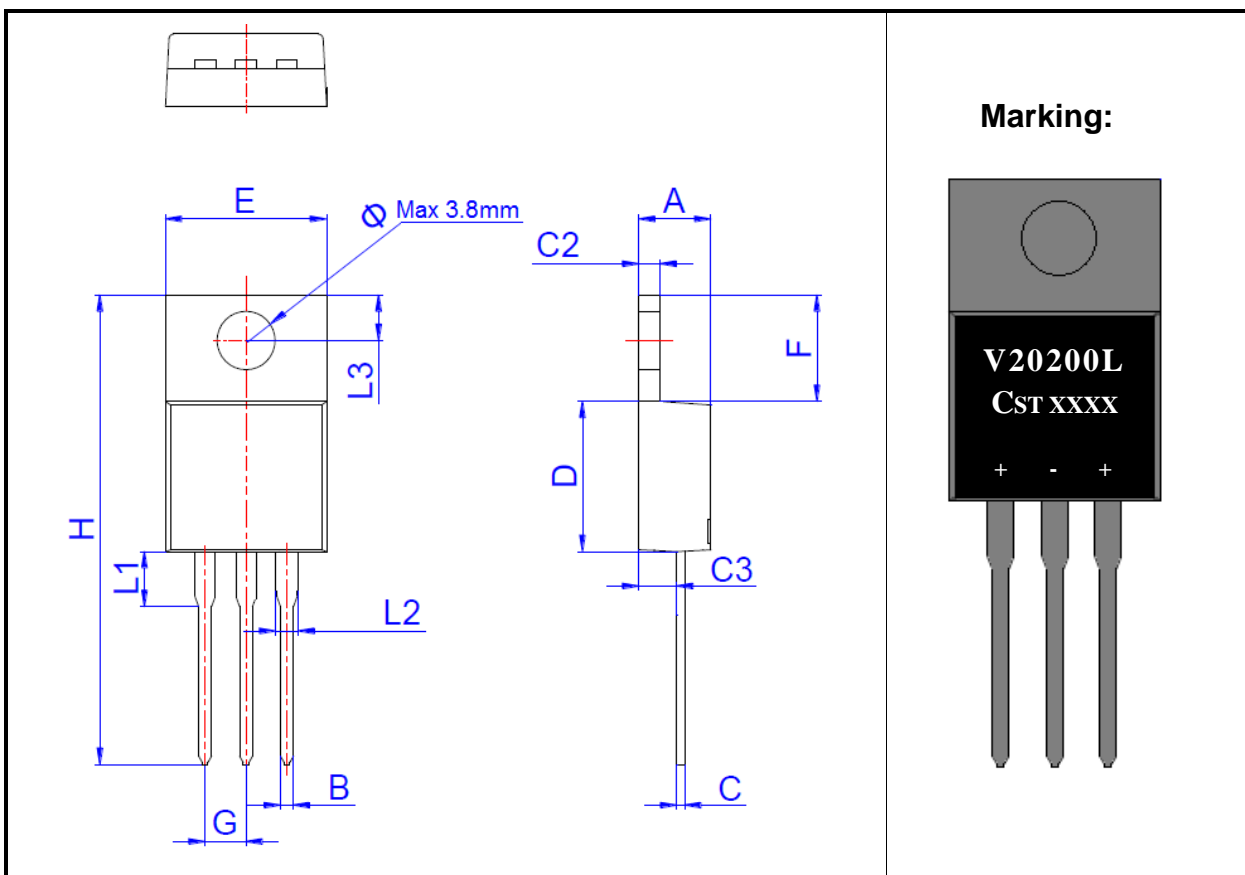
## 6、Electrical Characteristics ( $T_a = 25^\circ\text{C}$ unless otherwise noted )

SYMBOL	PARAMETER	CONDITONS	VALUE	UNIT
$V_F$	Instantaneous forward voltage per diode	$I_F = 10\text{A}, T_A = 25^\circ\text{C}$	0.88	V
$I_R$	Maximum peak reverse Current	$V_R = 200\text{V}, T_A = 25^\circ\text{C}$	0.1	mA
		$V_R = 200\text{V}, T_A = 100^\circ\text{C}$	20	mA

7、Electrical Characteristics Curve



8. Package outline (TO-220)



DIM	Milimeters			Inches		
	Min	Type	Max	Min	Type	Max
A	4.04	-	5.10	0.173	-	0.181
B	0.68	-	0.94	0.028	-	0.035
C	0.28	-	0.64	0.015	-	0.017
C2	1.14	-	1.40	0.048	-	0.052
C3	2.14	-	3.19	0.093	-	0.104
D	8.30	-	9.30	0.327	-	0.366
E	9.50	-	10.5	0.390	-	0.406
F	6.10	-	6.70	0.240	-	0.264
G		2.54			0.1	
H	28.0	-	29.8	1.102	-	1.173
L1		3.78			0.149	
L2	1.14	-	1.70	0.045	-	0.067
L3	2.22	-	3.27	0.104	-	0.116
Φ		3.80			0.150	