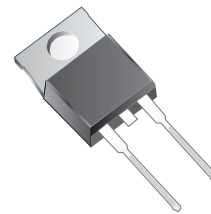


## CEF860LT-G

**Reverse Voltage: 600 V**  
**Forward Current: 8.0 A**  
**RoHS Device**

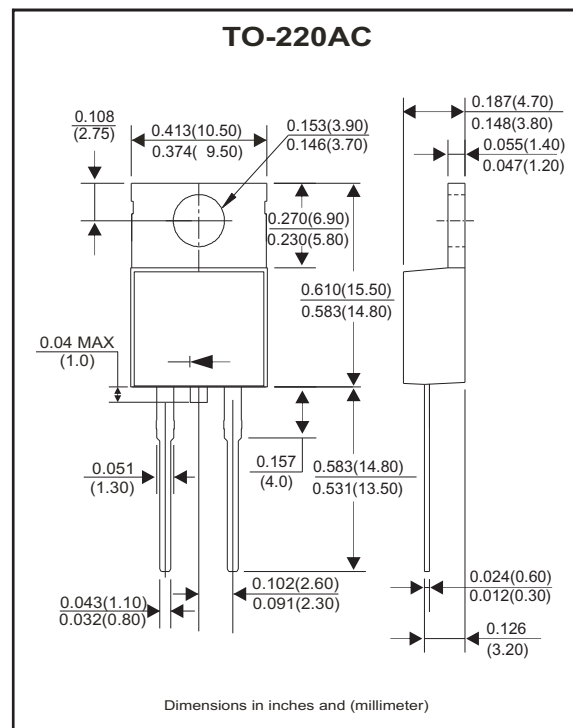


### Features

- Soft recovery characteristic.
- Low forward voltage.
- Low recovery loss.
- High surge current capability.

### Mechanical Data

- Case: TO-220AC, molded plastic.
- Epoxy: UL 94V-0 rate flame retardant.
- Polarity: As marked on the body.
- Mounting position: Any
- Weight: 2.14 grams



### Maximun Ratings (at T<sub>J</sub>=25°C unless otherwise noted)

Parameter	Symbol	CEF860LT-G	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	600	V
Average Rectified Forward Current	I <sub>F(AV)</sub>	8	A
Non-Repetitive Surge Forward Current T <sub>P</sub> = 10ms(50HZ) Sine Wave	I <sub>FSM</sub>	125	A
Avalanche Energy with Single Pulse ( L=40mH )	E <sub>AS</sub>	60	mJ
Maximum Power Dissipation	P <sub>D</sub>	54	W
Junction-to-Case Thermal Resistance, Per Leg	R <sub>θJC</sub>	2.3	°C/W
Junction-to Ambient Thermal Resistance, Per Leg	R <sub>θJA</sub>	70	°C/W
Operating Junction and Storage Temperatures	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

## Electrical Characteristics and Curves (at T<sub>J</sub>=25°C unless otherwise noted)

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Breakdown Voltage	I <sub>R</sub> = 100μA	V <sub>BR</sub>	600			V
Forward Voltage	I <sub>F</sub> = 8A	V <sub>F</sub>		1.3	1.7	V
	I <sub>F</sub> = 8A, T <sub>J</sub> = 125°C	V <sub>F</sub>		1.1	1.5	V
Reverse Leakage Current	V <sub>R</sub> = 600V	I <sub>R</sub>			10	μA
	V <sub>R</sub> = 600V, T <sub>J</sub> = 125°C	I <sub>R</sub>			250	μA

## Dynamic Recovery Characteristics

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Reverse Recovery Time	I <sub>F</sub> = 1A, V <sub>R</sub> = 30V, di <sub>F</sub> /dt = -200A/μs	t <sub>rr</sub>		24	30	ns
Reverse Recovery Time	I <sub>F</sub> = 8A, V <sub>R</sub> = 300V di <sub>F</sub> /dt = -200A/μs	t <sub>rr</sub>		32		ns
Peak Recovery Current		I <sub>R</sub> RRM		4.2		A
Reverse Recovery Charge		Q <sub>rr</sub>		67		nC
Reverse Recovery Time		t <sub>rr</sub>		65		ns
Peak Recovery Current	I <sub>F</sub> = 8A, V <sub>R</sub> = 300V di <sub>F</sub> /dt = -200A/μs, T <sub>J</sub> =125°C	I <sub>R</sub> RRM		6.2		A
Reverse Recovery Charge		Q <sub>rr</sub>		201		nC

## RATING AND CHARACTERISTIC CURVES ( CEF860LT-G )

FIG.1 - Average Forward Current vs. Max. Allowable Case Temperature

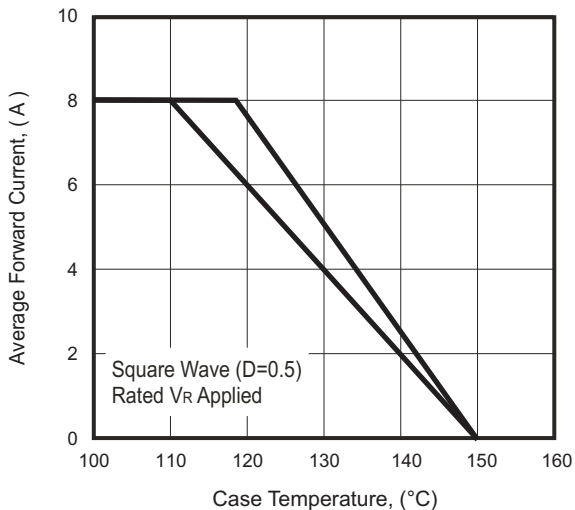


FIG.2 - Typical Junction Capacitance vs. Reverse Voltage

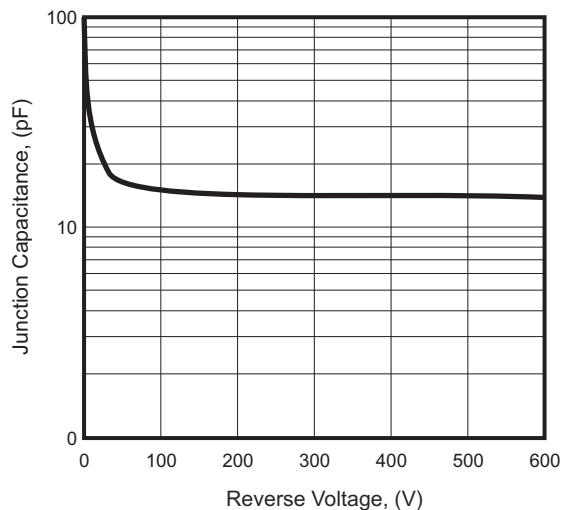


FIG.3 - Typical Value of Reverse Current vs. Reverse Voltage

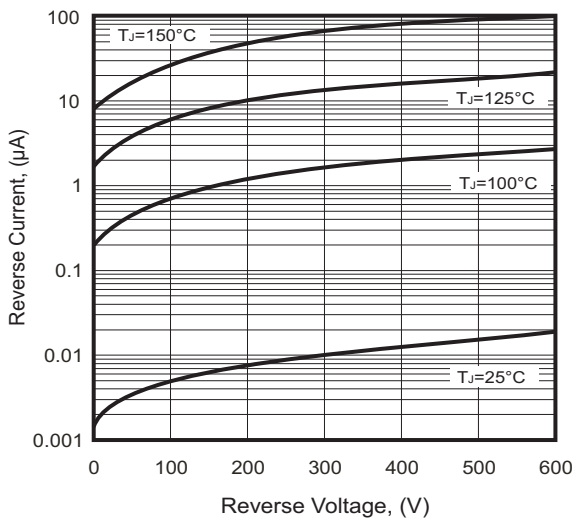
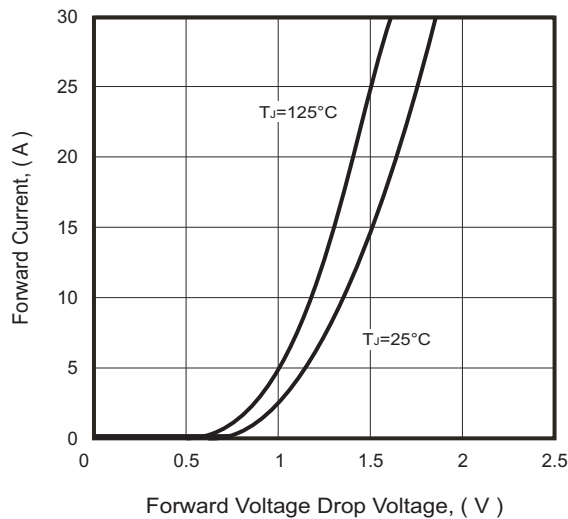
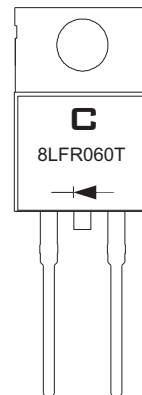


FIG.4 - Typical Forward Voltage Drop Characteristics



## Marking Code

Part Number	Marking code
CEF860LT-G	8LFR060T



**C** = Comchip Logo

## Standard Packaging

Case Type	TUBE PACK	
	TUBE ( pcs )	BOX ( pcs )
TO-220AC	50	2,000