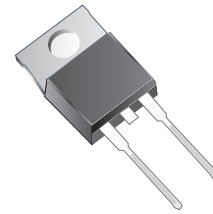


CEF860LT-G

Reverse Voltage: 600 V

Forward Current: 8.0 A

RoHS Device

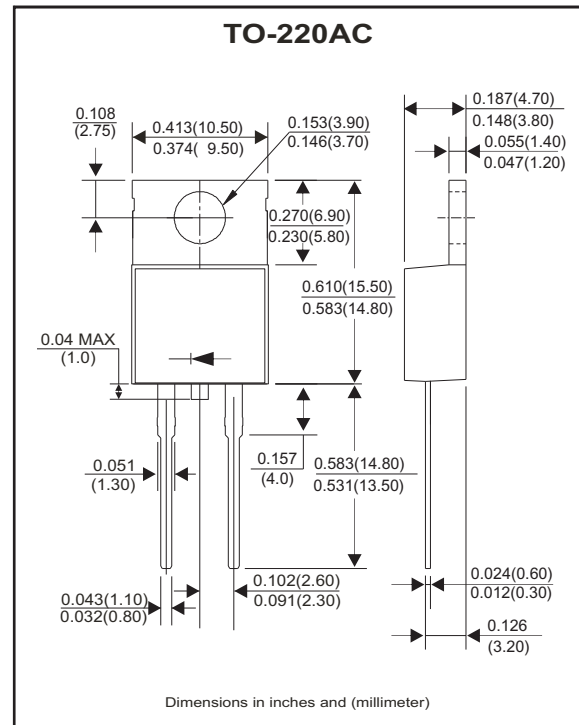


Features

- 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_J=25°C unless otherwise noted)

Parameter		Symbol	CEF860LT-G	Unit
Repetitive Peak Reverse Voltage		V _{RRM}	600	V
Average Rectified Forward Current	@ T _J = 110°C	I _{F(AV)}	8	A
Non-Repetitive Surge Forward Current T _P = 10ms(50HZ) Sine Wave	@ T _J = 25°C	I _{FSM}	125	A
Avalanche Energy with Single Pulse (L=40mH)		E _{AS}	60	mJ
Maximum Power Dissipation		P _D	54	W
Junction-to-Case Thermal Resistance, Per Leg		R _{θJC}	2.3	°C/W
Junction-to-Ambient Thermal Resistance, Per Leg		R _{θJA}	70	°C/W
Operating Junction and Storage Temperatures		T _J , T _{STG}	-55 to +150	°C

Electrical Characteristics and Curves (at $T_J=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Breakdown Voltage	$I_R = 100\mu\text{A}$	V_{BR}	600			V
Forward Voltage	$I_F = 8\text{A}$	V_F		1.3	1.7	V
	$I_F = 8\text{A}$, $T_J = 125^{\circ}\text{C}$	V_F		1.1	1.5	V
Reverse Leakage Current	$V_R = 600\text{V}$	I_R			10	μA
	$V_R = 600\text{V}$, $T_J = 125^{\circ}\text{C}$	I_R			250	μA

Dynamic Recovery Characteristics

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Reverse Recovery Time	$I_F = 1\text{A}$, $V_R = 30\text{V}$, $dI_F/dt = -200\text{A}/\mu\text{s}$	t_{rr}		24	30	ns
Reverse Recovery Time	$I_F = 8\text{A}$, $V_R = 300\text{V}$ $dI_F/dt = -200\text{A}/\mu\text{s}$	t_{rr}		32		ns
Peak Recovery Current		I_{RRM}		4.2		A
Reverse Recovery Charge		Q_{rr}		67		nC
Reverse Recovery Time	$I_F = 8\text{A}$, $V_R = 300\text{V}$ $dI_F/dt = -200\text{A}/\mu\text{s}$, $T_J=125^{\circ}\text{C}$	t_{rr}		65		ns
Peak Recovery Current		I_{RRM}		6.2		A
Reverse Recovery Charge		Q_{rr}		201		nC

RATING AND CHARACTERISTIC CURVES (CEF860LT-G)

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

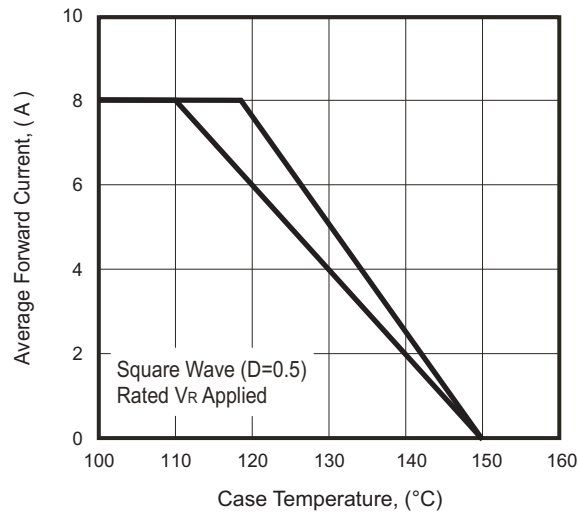


FIG.2 - Typical Junction Capacitance
vs. Reverse Voltage

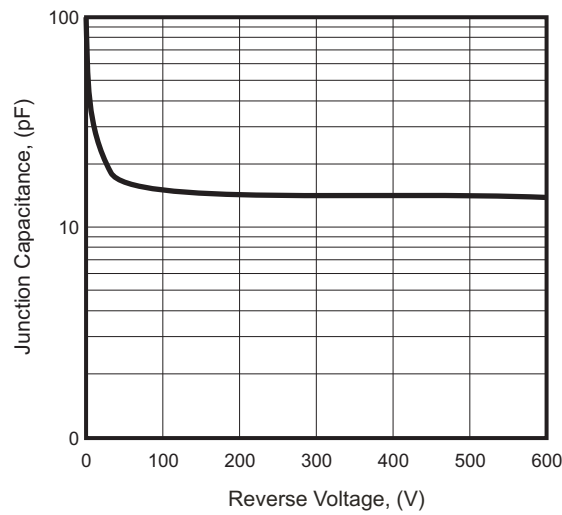


FIG.3 - Typical Value of Reverse Current
vs. Reverse Voltage

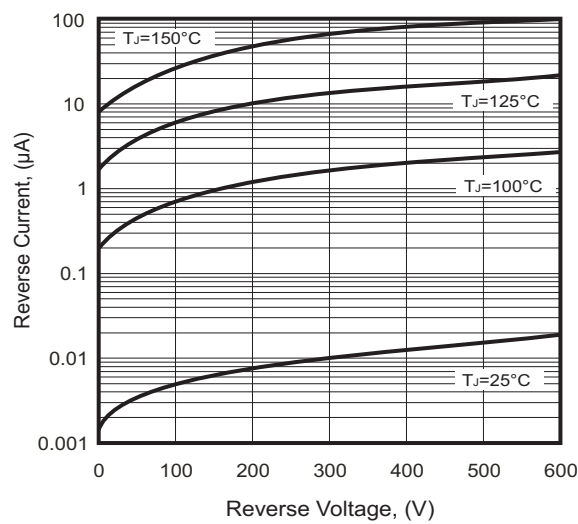
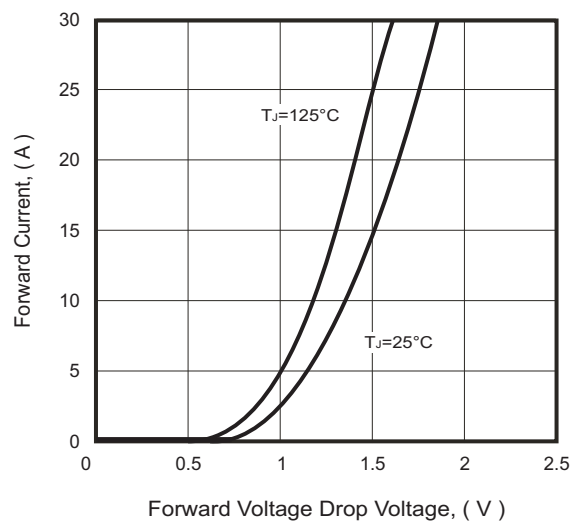
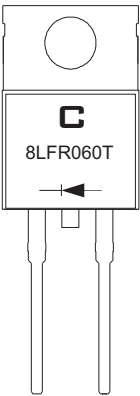


FIG.4 - Typical Forward Voltage
Drop Characteristics



Marking Code

Part Number	Marking code
CEF860LT-G	8LFR060T



⌚ = Compchip Logo

Standard Packaging

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