GESBL1630CT~1660CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE 30V TO 60V, CURRENT 16A

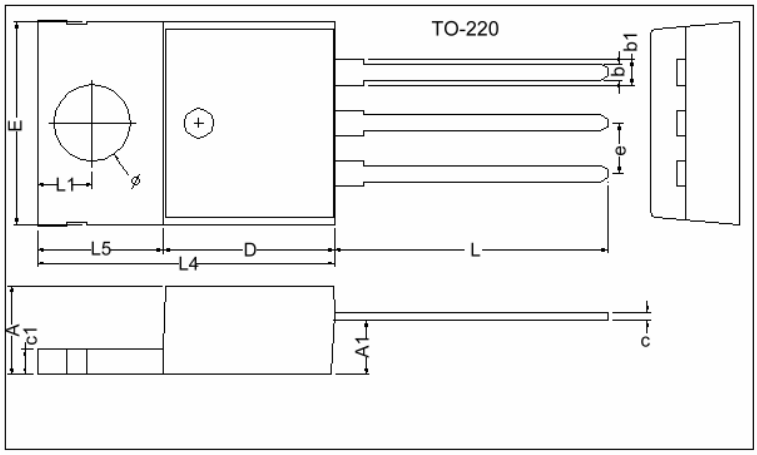
Description

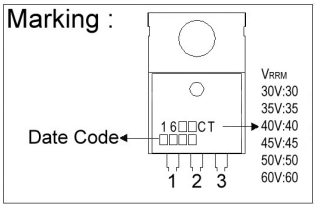
The GESBL1630CT~1660CT are designed for use in low voltage, high frequency inverters, free wheeling and polarity protection applications.

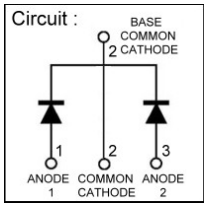
Features

- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low V_F
- High surge capacity

Package Dimensions







REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.80	c1	1.25	1.45
b	0.76	1.00	b1	1.17	1.47
c	0.36	0.50	L	13.25	14.25
D	8.60	9.00	e	2.54 REF.	
E	9.80	10.4	L1	2.60	2.89
L4	14.7	15.3	Ø	3.71	3.96
L5	6.20	6.60	A1	2.60	2.80

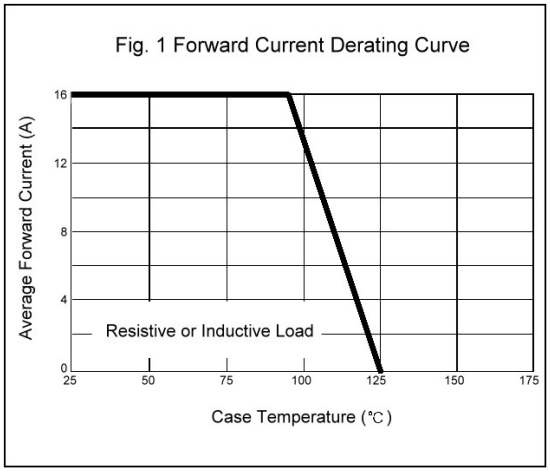
Maximum Ratings and Electrical Characteristics at Ta=25℃ unless otherwise specified.

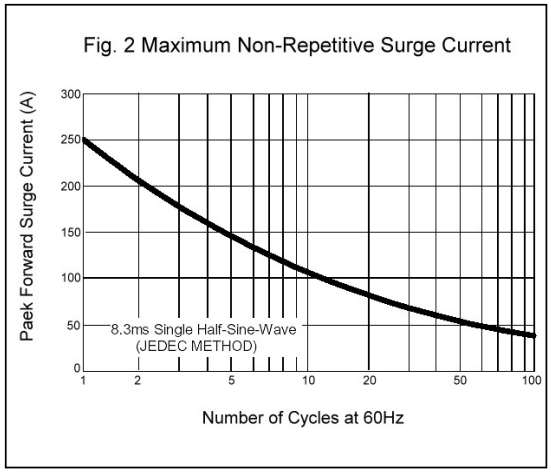
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

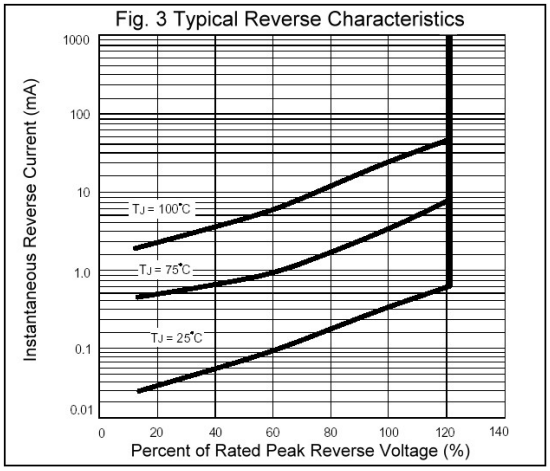
Parameters	Symbol	Ratings						Unit
		GESBL 1630CT	GESBL 1635CT	GESBL 1640CT	GESBL 1645CT	GESBL 1650CT	GESBL 1660CT	V
Max. Recurrent Peak Reverse Voltage	V_{RRM}	30	35	40	45	50	60	V
Max. RMS Voltage	V_{RMS}	21	24.5	28	31.5	35	42	V
Max. DC Blocking Voltage	V_{DC}	30	35	40	45	50	60	V
Max. Average Forward @T_C=95℃ Rectified Current (See Fig.1)	$I_{(AV)}$	16						A
Peak Surge Forward Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}	250						A
Max. Forward Voltage @ 8A (Note 1)	V_F	0.55				0.7		V
Max. DC Reverse Current @T_J=25℃ At Rated DC Blocking Voltage @T_J=100℃	I_R	0.5 50						mA
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.5						℃/W
Operating Temperature Range	Tj	-55 ~ +125						℃
Storage Temperature Range	Tstg	-55 ~ +150						℃

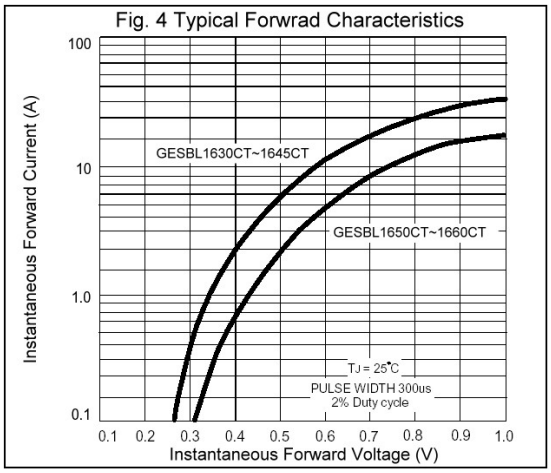
Notes: 1. 300us Pulse Width, 2% Duty Cycle.
2. Thermal Resistance Junction to Case.

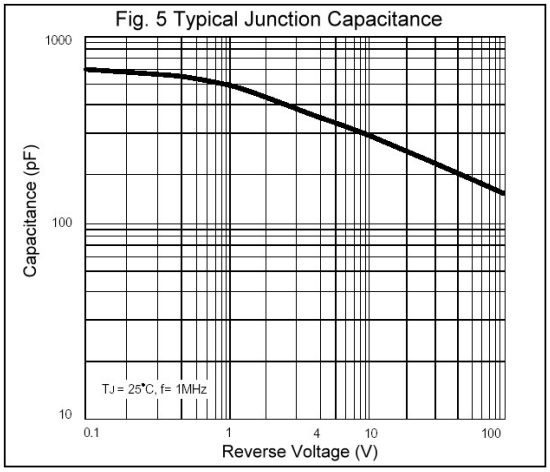
Characteristics Curve











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