GESBL1630CT~1660CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE 30V TO 60V, CURRENT 16A

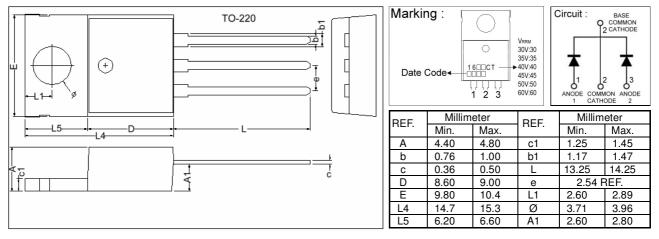
Description

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 VF
- High surge capacity

Package Dimensions



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

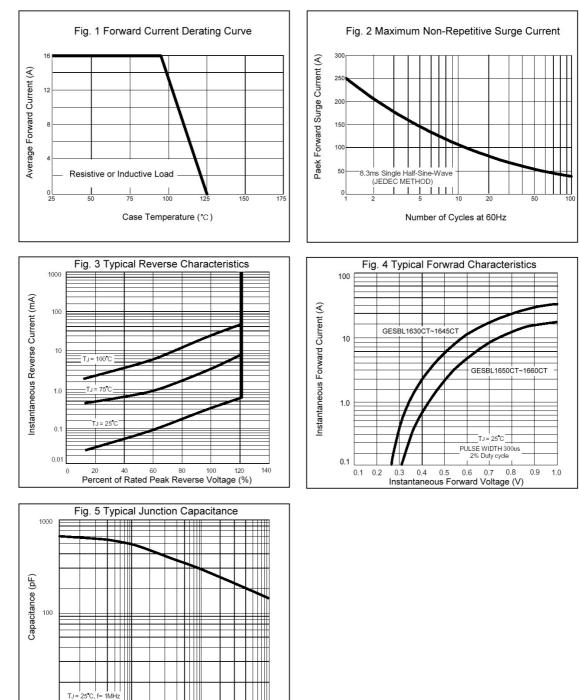
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

ymbol V _{RRM} V _{RMS}	GESBL 1630CT 30	GESBL 1635CT 35	GESBL 1640CT	GESBL 1645CT	GESBL 1650CT	GESBL 1660CT	V
	30	35	40			100001	· ·
V _{RMS}		00	40	45	50	60	V
	21	24.5	28	31.5	35	42	V
V _{DC}	30	35	40	45	50	60	V
I _(AV)	16					А	
I _{FSM}	250					A	
V_{F}	0.55 0.7					V	
I _R	0.5 50					mA	
$R_{\theta JC}$	2.5					°C/W	
Tj	-55 ~ +125					°C	
Tstg	-55 ~ +150					°C	
	V _{DC} I _(AV) I _{FSM} V _F I _R R _{θJC} Tj	V _{DC} 30 I _(AV) I _{FSM} V _F I _R R _{θJC} Tj	V _{DC} 30 35 I _(AV) I _{FSM} V _F 0.5 I _R R _{θJC} Tj	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Notes: 1. 300us Pulse Width, 2% Duty Cycle.

2. Thermal Resistance Junction to Case.

Characteristics Curve



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1 4 10 Reverse Voltage (V)

10 L