

Pb Free Plating Product

HBR1020CJR



10.0 Ampere Heatsink Tandem Polarity Schottky Half Bridge Rectifier

Features

- ★ Matured HMBR SKY technology
- ★ Internal ceramic insulated package outline
- ★ High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

Application

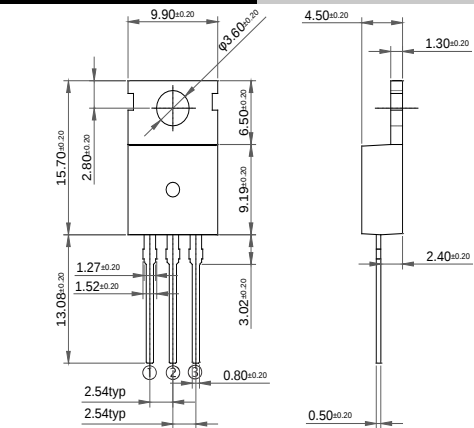
- ★ Inverters, Free Wheeling and Polarity Protection
- ★ High Frequency SMPS, Telecom SMPS and UPS
- ★ Car Audio Amplifiers and Sound Device Systems etc..

Mechanical Data

- ★ Case: Heatsink TO-220CS internal ceramic insulated
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-202 method 208
- ★ Polarity: As marked on diode body
- ★ Mounting position: Any
- ★ Weight: 2.2 gram approximately

TO-220CS

Unit:mm



①
②
③
Series
Tandem Polarity

$I_F(AV)$	10A
V_{RRM}	200V(2x100V)
T_j	175 °C
$V_F(max)$	0.70V (@ $T_j=125^{\circ}C$)

ABSOLUTE RATINGS ($T_c=25^{\circ}C$)

Symbol	Characteristics		Maximum Ratings	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	Per Device(2x100V) (Series Connection)	200	V
V_{DC}	Maximum DC Blocking Voltage	Per Diode	100	V
$I_{(AV)}$	Maximum Average Forward Rectified Current @ $T_c=150^{\circ}C$		10	A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)		200	A
V_F	Maximum Forward Voltage (Note 1)	@ $I_F=10A$ @ $T_j=25^{\circ}C$	0.85	V
		@ $I_F=10A$ @ $T_j=125^{\circ}C$	0.70	V
I_R	Maximum DC Reverse Current At Rated DC Blocking Voltage	@ $T_j=25^{\circ}C$	10	μA
		@ $T_j=125^{\circ}C$	5	mA
$R_{th(j-c)}$	Thermal Resistance from Junction to Case (Note 2)		1.9	$^{\circ}C/W$
T_j	Operating Temperature Range		-55 to +175	$^{\circ}C$
T_{STG}	Storage Temperature Range		-40 to +150	$^{\circ}C$

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

2. Thermal Resistance Junction To Case.

Measured At 1.0MHz And Applied Reverse Voltage Of 4.0V DC.

ELECTRICAL CHARACTERISTICS (curves)

