

1000 V

Voltage

 $P\Lambda N$

SEMI CONDUCTOR

20A

HF

Current

Features

- Ideal for printed circuit boards
- UL recognition file number E526209
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

- Case : GBJ-2 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 6.6972 grams

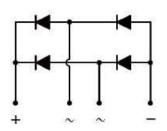
Application

- Computing Power,
- Server Power/IND/EV
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board
- TV Power

Key Parameters				
Parameter	Value			
V _{RRM}	1000V			
I _F (AV)	20A			
I _{FSM}	260A			
I _R	5uA			
Package	GBJ-2			

<u>GBJ-2</u>







Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Volta	age	VRRM	1000	V	
Maximum RMS Voltage		V _{RMS}	700	V	
Maximum DC Blocking Voltage		V _{DC}	1000	V	
Maximum Average Forward Current	With heatsink		20		
	Without heatsink	I _{F(AV)}	3.9	A	
Peak Forward Surge Current : 8.3 ms	@ T _A = 25 °C		260	_	
Single Half Sine-Wave Superimposed On Rated Load Peak Forward Surge Current : 1.0 ms Single Half Square -Wave	@ T _A = 125 °C	IFSM	208	A	
	@ T _A = 25 °C		470	_	
Single Half Square -Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	380	A	
I^2 t rating for fusing (t = 8.3ms)		l²t	280	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_{R} = 4$	V	CJ	85	pF	
		R _{θJA}	8	8	
Typical Thermal Resistance (Note 1)		R _{θJL}	2	°C/W	
		R _{ejc}	2		
Operating junction and storage temperat	ure range	TJ, TSTG	-55~150	°C	
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm	

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I _F = 10 A, T _J = 25 °C	-	-	1.05	V	
Reverse Current	IR	$V_R = 1000 V, T_J = 25 \circ C$	-	-	5	uA	
		V _R = 1000 V,T _J = 125 °C	-	-	100		

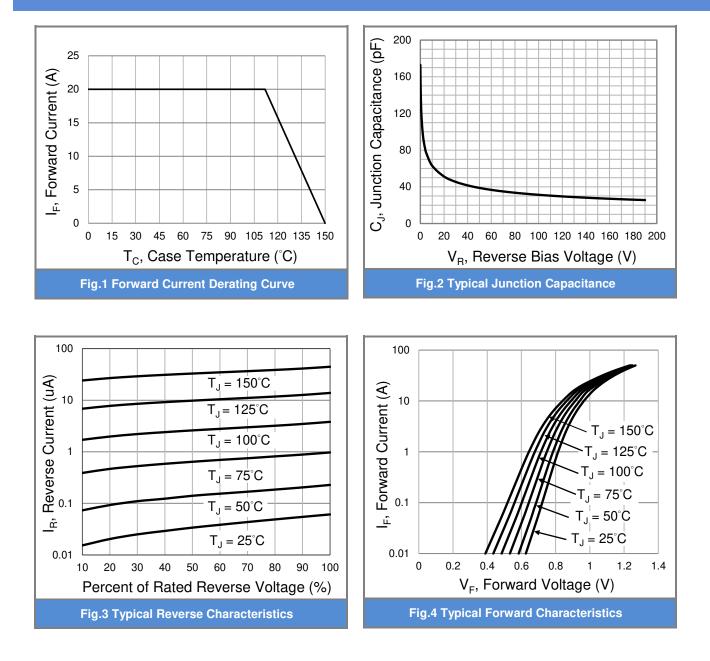
NOTES :

1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink.



GBJ2010

TYPICAL CHARACTERISTIC CURVES





Part No. Marking Code Version

Approved Part No.	Package Type	Marking	
GBJ2010	GBJ-2	15 pcs / tube	GBJ2010

Packaging Information

GBJ-2 Dimension		Unit: inch(mm)			
		GBJ-2 Dimension.Unit:Inch(mm)			
	Dim	Unit (Inch)		Unit (mm)	
Q A Dim	Dim	Min	Max	Min	Max
-+	A	1.169	1.193	29.70	30.30
	В	0.776	0.799	19.70	20.30
	С	0.669	0.709	17.00	18.00
_	D	0.386	0.402	9.80	10.20
	E	0.287	0.303	7.30	7.70
L L	F	0.154	0.169	3.90	4.30
• •	G	0.079	0.094	2.00	2.40
	н	0.035	0.043	0.90	1.10
	1	0.173	0.189	4.40	4.80
G K	J	0.091	0.106	2.30	2.70
	ĸ	0.102	0.114	2.60	2.90
' 0	L	0.024	0.031	0.60	0.80
	M	0.181	0.189	4.60	4.80
H	N	ø0.122	ø0.134	ø3.10	ø3.40
	P	0.346	0.362	8.80	9.20
	Q	C0.	118	C3	.00
	R	0.138	0.150	3.50	3.80



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