

A1

E502650

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Glass Passivated Chip Junction
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)

4 Amp Bridge Rectifier 1000 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	1000	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V _{RMS}	700	V
Average Rectified Forward Current @ T _C =125°C	I _{F(AV)}	4	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	135	Α
Non-Repetitive Peak Surge Current @ 1ms Square Wave	IFSM	270	A
I ² t Rating for Fusing @1ms≤t≤8.3ms	I ² t	75.6	A ² s
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2	KV

DIMENSIONS						
DIM	INC	HES	M	М	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIE	
Α	0.173	0.189	4.40	4.80		
A1	0.134	0.150	3.40	3.80		
A2	0.126	0.134	3.20	3.40		
b	0.035	0.043	0.90	1.10		
b1	0.059	0.075	1.50	1.90		
С	0.024	0.031	0.60	0.80		
D	0.579	0.602	14.70	15.30		
D1	0.150	0.165	3.80	4.20		
D2	0.374	0.413	9.50	10.50		
E	0.976	0.992	24.80	25.20		
е	0.287	0.303	7.30	7.70		
L	0.669	0.709	17.00	18.00		
L1	0.130	0.146	3.30	3.70		
Р	0.122	0.134	3.10	3.40	Ø	

Internal Structure

Simplified Outline	Graphic Symbol
MCC KBJ410GS 🔊	
+ ~ ~ -	+ ~ ~ -

Note:

1. High temperature solder exemption applied, see EU directive annex 7a.



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		3		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		20		°C/W

Note:

Mechanical Data

Recommended Mounting Torque: 0.5 N•m

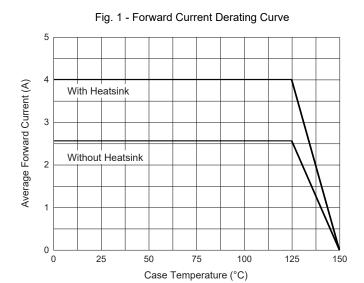
Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =2A;T _J =25°C			1.0	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			5 100	μА
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		38		pF

^{1.}Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.



Curve Characteristics



Current 135 120 Peak Forward Surge Current (A) 105 90 75 60 45 30 15 8.3 ms Single Half Sine-Wave 0 10 100 Number of Cycles at 60 Hz

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge



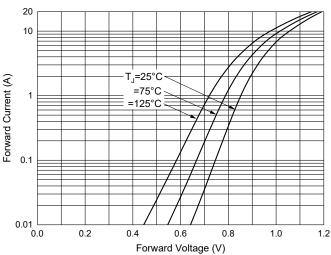


Fig. 4 - Typical Reverse Leakage Characteristics

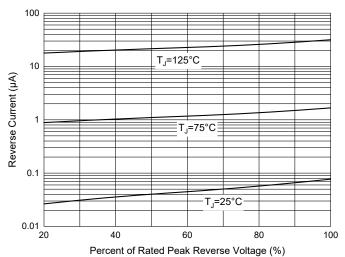
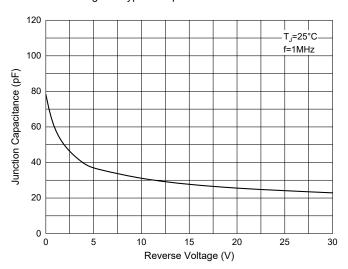


Fig. 5 - Typical Capacitance Characteristics





Ordering Information

Device	Packing
KBJ410GS-BP	Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton

Note: Adding "-HF" Suffix For Halogen Free, eg. KBJ410GS-BP-HF

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Rev.4-1-12052024 4/4 MCCSEMI.COM