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E502650

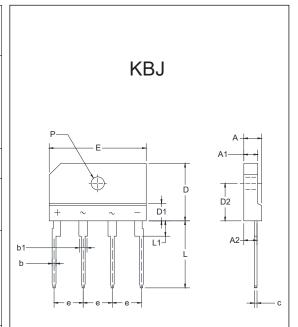
Features

- 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)

15 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	٧
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V_{RMS}	700	٧
Average Rectified Forward Current @ T _C =105°C	I _{F(AV)}	15	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1	220	۸
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	440	A
I²t Rating for Fusing @1ms≤t≤8.3ms	I ² t	201	A ² s
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2	KV



DIMENSIONS						
DIM	INC	HES	M	IM	NOTE	
	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 KBJ1510GS N	
+ ~ ~ -	+ ~ ~ -

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		1.5		°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 =7.5A;T _J =25°C			1.0	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			5 100	μA
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		70		pF

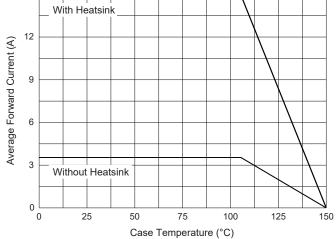
^{1.}Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.



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Curve Characteristics

Fig. 1 - Forward Current Derating Curve



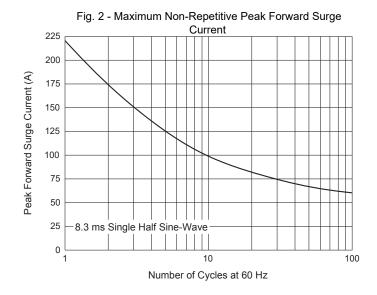


Fig. 3 - Typical Forward Characteristics

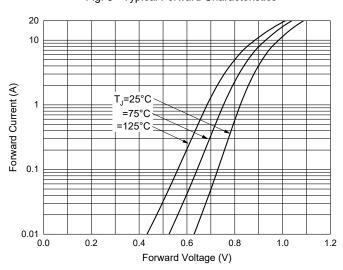


Fig. 4 - Typical Reverse Leakage Characteristics

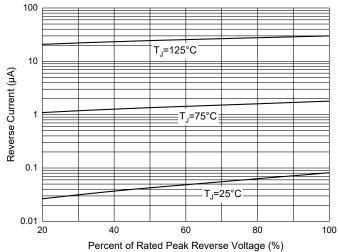
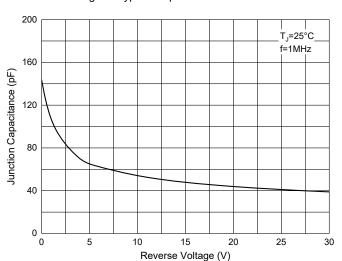


Fig. 5 - Typical Capacitance Characteristics





Ordering Information

Device	Packing
KBJ1510GS-BP	Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. KBJ1510GS-BP-HF

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