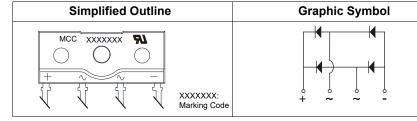




۶L°		E502650													
Features															
<ul> <li>Halogen Free. "Gree</li> <li>Glass Passivated C</li> <li>High Surge Forward</li> <li>Epoxy Meets UL 94</li> <li>Lead Free Finish/Ro RoHS Compliant. So</li> </ul>	hip Juncti I Current V-0 Flam HS Com ee Orderi	on Capabi Imabilit pliant ( ng Info	ility y Ratir Note 2 rmatio	)("P" S n)		-		cifie	d)			dge	An Re 000	ctif	
	-9- C -		(0		Value										
Parameter	Symbol	KBJA 10005				KBJA	KBJA 1008		Unit						
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>														
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V				П		
DC Blocking Voltage	$V_{R}$												JB		
RMS Reverse Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V						
Average Rectified Forward Current @ T <sub>c</sub> =95°C	I <sub>F(AV)</sub>				10				А			A			F H
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave		150								0	0	B	E G		
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I <sub>FSM</sub>	300					Α	<u> </u>							
I²t Rating for Fusing @1ms≤t≤8.3ms	l <sup>2</sup> t	93 4					A²s	<u>M</u>	╢╸╢	ļ	ļļ				
Dielectric strength @Terminals to Case, AC 1 Minute	V <sub>dis</sub>	2 KV					кν		N -	N	<u>N</u>		┺╞╟╼		
Marking Code													IENSION		
Part Number	Marking	g Code	)							DIM	INCI MIN	MAX	MIN	MAX	NOTE
KBJA10005	KBJA10	005								A			24.70		
KBJA1001	KBJA10							В	0.394	0.417	10.00	10.60			
KBJA1002	KBJA10							С		0.598		15.20			
KBJA1004	KBJA10							D		0.472		12.00			
KBJA1006	KBJA10							E F	0.213 0.154		5.40	6.00 4.50			
KBJA1008 KBJA1010	KBJA10							G F	0.154		3.90 3.10	3.40			
NDJATUTU	KBJA1010							0.122	0.134	0.10	0.40				

#### **Internal Structure**



Note:

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chloring (<1500ppm total Br + Cl) and <1000ppm antimopy compounds

<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.</p>
2.High temperature solder exemption applied, see EU directive annex 7a.

0.114 0.138 2.90

0.102

0.024

0.069

0.043

0.303

0.083 0.091

2.00

0.40

-

0.90

7.30

2.10

0.079

0.012

0.035

0.287

Н

J

Κ

L

Μ

Ν

0

3.90

2.60

0.60

1.75

1.10

7.70

2.30



### **Thermal characteristics**

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T <sub>stg</sub>	Storage Temperature Range		-55		150	°C
Rth <sub>(J-C)</sub>	Thermal Resistance from Junction to Case	Note 1		2.8		°C/W
Rth <sub>(J-A)</sub>	Thermal Resistance from Junction to Ambient	Without Heatsink		28		°C/W

Note:

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

#### **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 <sub>F</sub>	I <sub>F</sub> =5A;T <sub>J</sub> =25°C			1.0	V
Reverse Current	I <sub>R</sub>	at Rated V <sub>R</sub> ;T <sub>J</sub> =25°C at Rated V <sub>R</sub> ;T <sub>J</sub> =125°C			5 100	μΑ
Junction Capacitance	CJ	V <sub>R</sub> =4V;f=1MHz;T <sub>J</sub> =25°C		50		pF



## **Curve Characteristics**

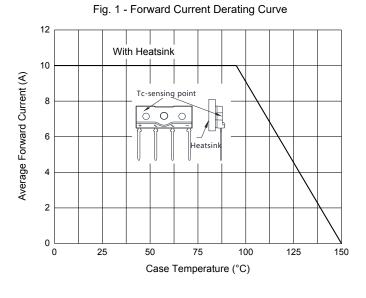


Fig. 3 - Typical Forward Characteristics

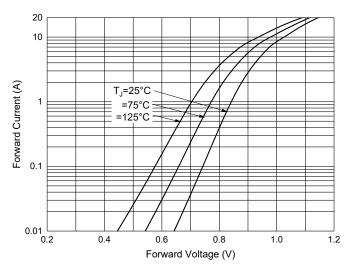
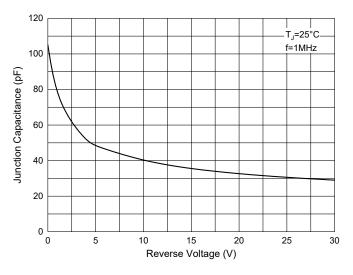


Fig. 5 - Typical Capacitance Characteristics



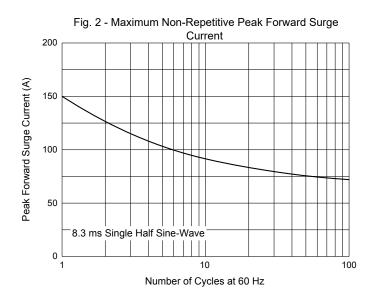
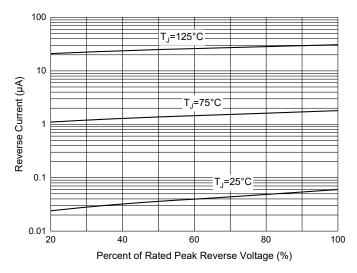


Fig. 4 - Typical Reverse Leakage Characteristics





## **Ordering Information**

Device	Packing
Part Number-BP	Bulk:20pcs/Tube,900pcs/Box,1800pcs/Carton

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