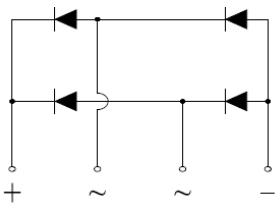
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

MECHANICAL DATA

KBJL



Case: KBJL

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 0.56 Nm max. (5 in-lbs. max.)

Weight: 2.5g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J=25°C unless otherwise noted)				
PARAMETER	SYMBOL	TS10KL60	TS10KL80	TS10KL1
Maximum repetitive peak reverse voltage	V_{RRM}	600	800	1000
Maximum RMS voltage	V_{RMS}	420	560	700
Maximum DC blocking voltage	V_{DC}	600	800	1000
Maximum average forward rectified current	$I_{F(AV)}$	10		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	180		
Rating of fusing (t<8.3ms)	I^2t	134		
Maximum instantaneous forward voltage (Note 1) I_F= 5 A	V_F	1.0		
Maximum reverse current @ rated V_R T_J=25 °C T_J=100 °C	I_R	 5 150		
Typical thermal resistance (Note 2)	$R_{\theta JC}$	1.5		
Operating junction temperature range	T_J	- 55 to +150		
Storage temperature range	T_{STG}	- 55 to +150		

Note 1: Pulse test with PW=300 µs, 1% duty cycle

Note 2: Mount on Heatsink size of 4" x 6" x 0.25" Al-Plate

*: Optional available

EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DES
TS10KL80HD3G	TS10KL80	H	D3	G	AEC- Gree

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

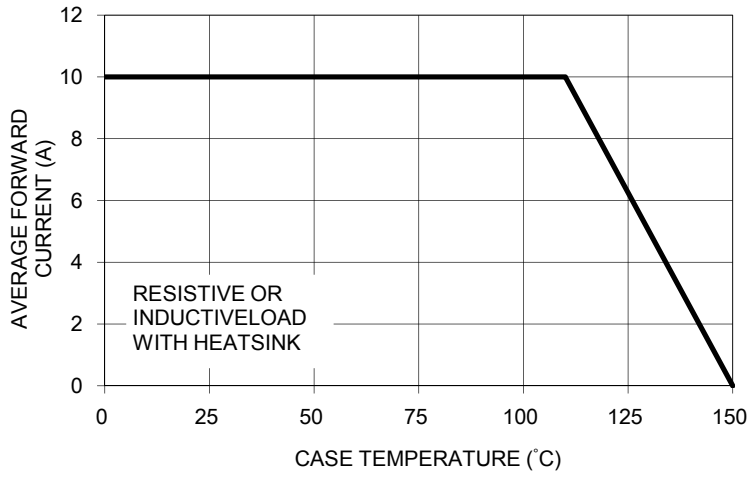


FIG. 2 MAXIMUM NON-REPETITIVE FOR
SURGE CURRENT

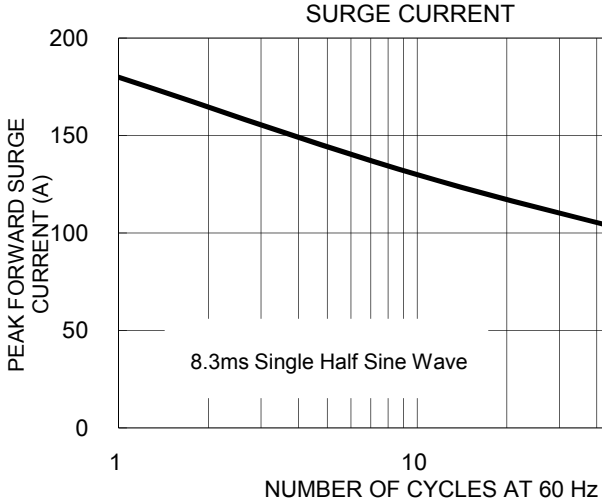


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

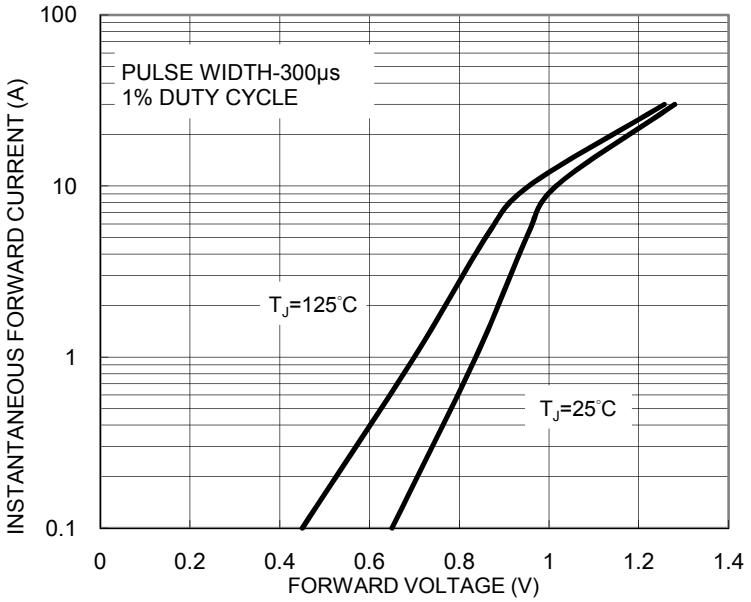
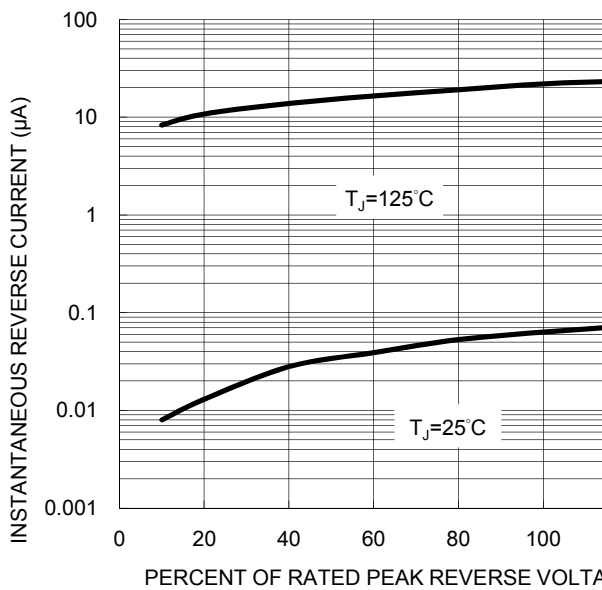
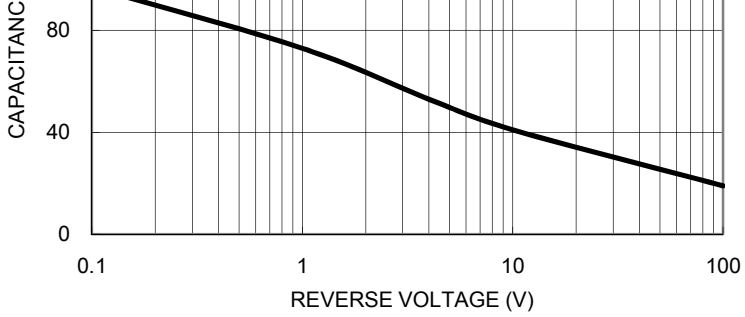


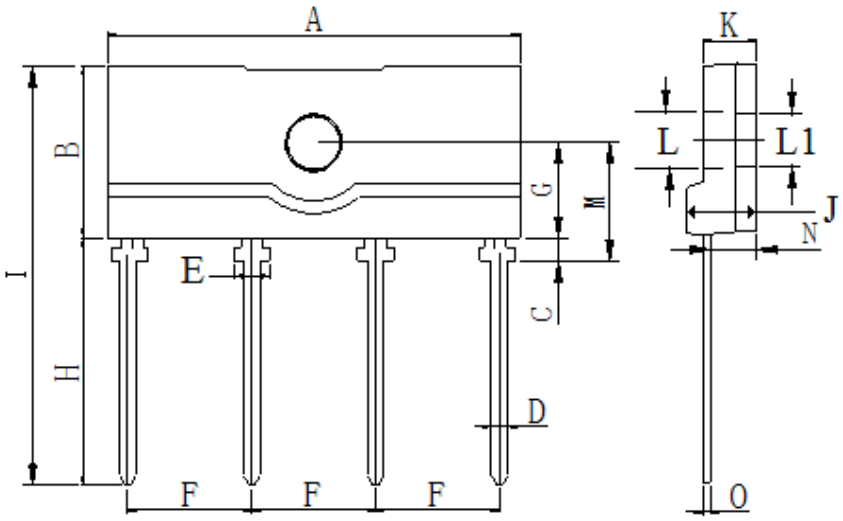
FIG. 4 TYPICAL REVERSE CHARACTE





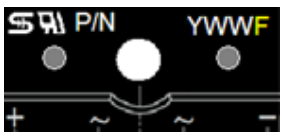
PACKAGE OUTLINE DIMENSIONS

KBJL



DIM.	Unit (mm)		Unit (inch	
	Min	Max	Min	M
A	24.70	25.30	0.972	0.9
B	10.00	10.60	0.394	0.4
C	1.20	1.60	0.047	0.0
D	0.90	1.10	0.035	0.0
E	2.10	2.30	0.083	0.0
F	7.30	7.70	0.287	0.3
G	5.50	5.90	0.217	0.2
H	14.40	15.40	0.567	0.6
I	24.90	25.50	0.980	1.0
J	4.00	4.40	0.157	0.1
K	3.00	3.40	0.118	0.1
L	3.30	3.50	0.130	0.1
L1	3.10	3.30	0.122	0.1
M	6.90	7.30	0.272	0.2
N	2.50	2.90	0.098	0.1
O	0.30	0.70	0.012	0.0

MARKING DIAGRAM



P/N = Specific Device Code
YWW = Date Code
F = Factory Code

Document Number: DS_D1402001

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