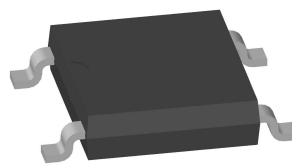




KABS22 thru KABS220 Surface mount schottky bridge rectifier

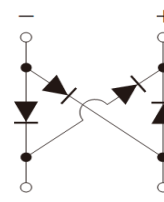
Features

- Low forward voltage drop
- Low power losses, high efficiency
- High Current Capability
- High surge capability
- High temperature soldering:
260°C/10 seconds at terminals
- Component in accordance to
RoHS 2011/65/EU and WEEE 2002/96/EC



RoHS
COMPLIANT

ABS



Mechanical Data

- **Case:**ABS
Molding compound meets
UL 94 V-0 flammability rating
- **Terminals:** Solder plated, solderable per
MIL-STD-750, Method 2026
- **Polarity:** Polarity symbols marked on case
- **Mounting Position:** Any

Major Ratings and Characteristics

$I_{F(AV)}$	2.0A
V_{RRM}	20 V to 200 V
I_{FSM}	50A
V_F	0.50V,0.55V,0.70V,0.85V,0.95V
$T_{Jmax.}$	125 °C,150°C

Maximum Ratings & Thermal Characteristics ($T_A = 25\text{ °C}$ unless otherwise noted)

Items	Symbol	KABS 22	KABS 23	KABS 24	KABS 25	KABS 26	KABS 28	KABS 210	KABS 215	KABS 220	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current at T_L (see Fig1.)	$I_{F(AV)}$	2									A	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	50									A	
Thermal resistance from junction to lead ⁽¹⁾	$R_{\theta JL}$	25									°C/W	
Operating junction temperature range	T_J	-65 to +125					-65 to +150					°C
Storage temperature range	T_{STG}	-65 to +150									°C	

Note 1: Mounted on P.C.B. with 0.32 x 0.32" (8 x 8mm) copper pad areas.



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

Items	Test conditions	Symbol	KABS22	KABS23~KABS24	KABS25~KABS26	KABS28~KABS210	KABS215~KABS220	Unit
Instantaneous forward voltage	I _F =2.0A ⁽²⁾	V _F	0.50	0.55	0.70	0.85	0.95	V
Reverse current	V _R =V _{DC}	I _R	0.5					mA
			20.0		10.0			

Note 2: Pulse test:300μs pulse width,1% duty cycle

Characteristic Curves (T_A=25 °C unless otherwise noted)

Fig 1. Forward Current Derating Curve

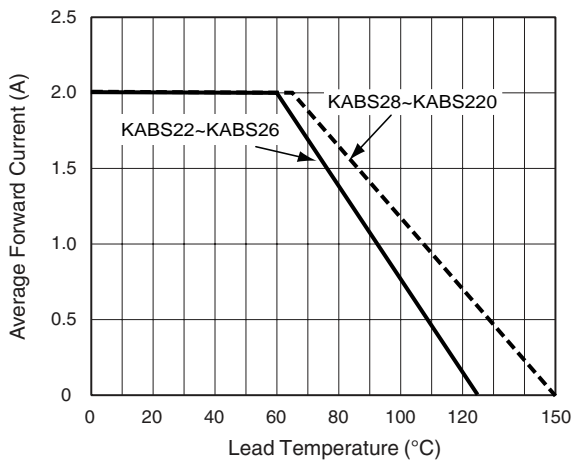


Fig 2. Maximum Non-Repetitive Peak Forward Surge Current

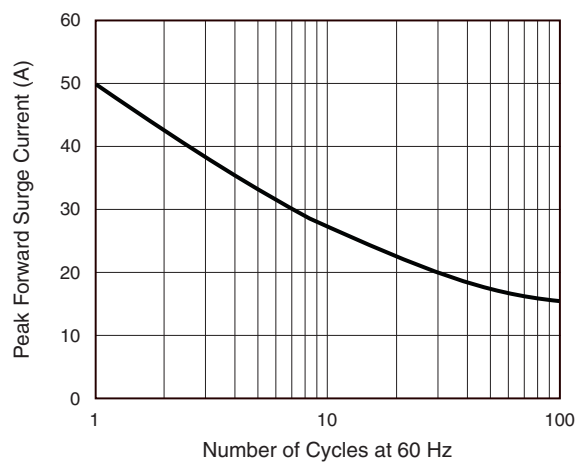


Fig3. Typical Instantaneous Forward Characteristics

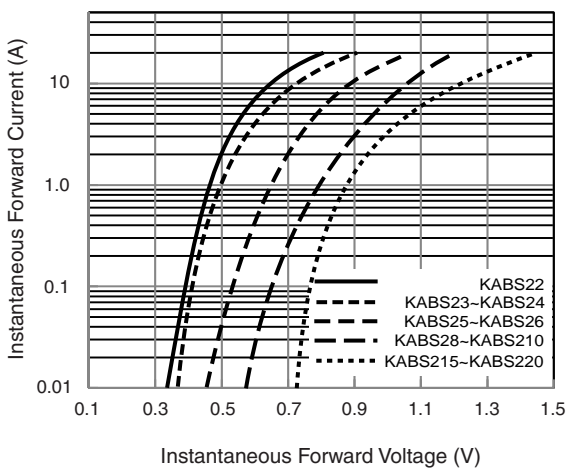
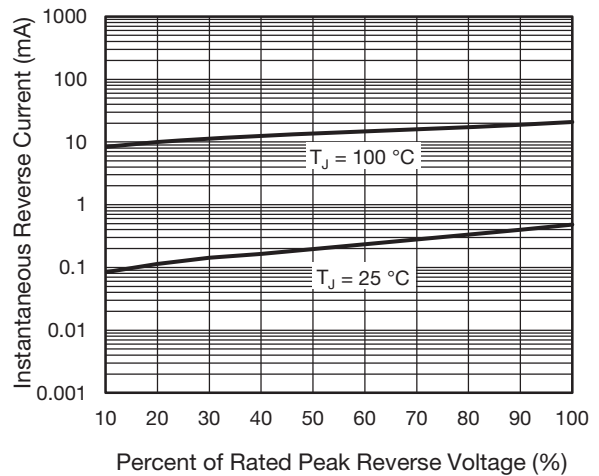


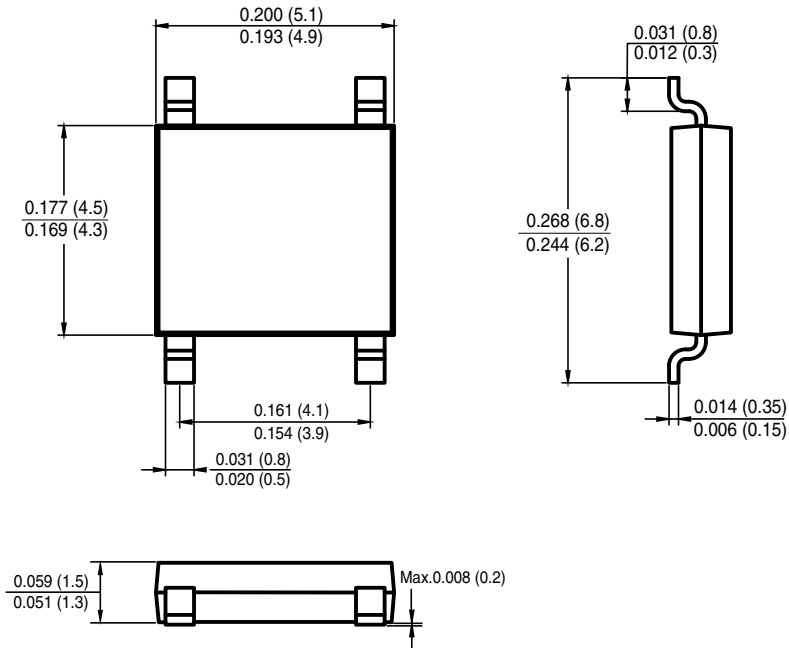
Fig 4. Typical Reverse Characteristics



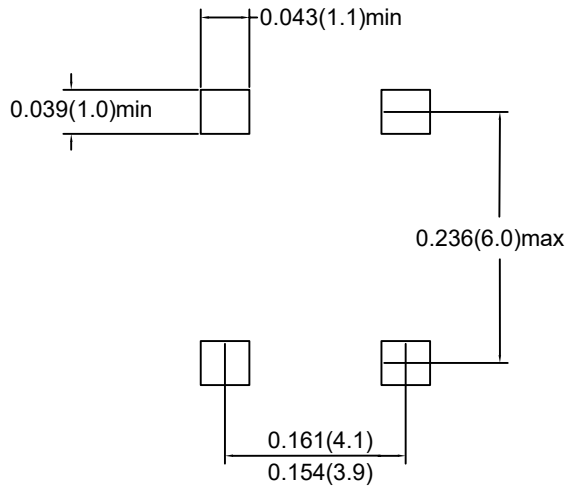


Package Outline

ABS



Mounting Pad Layout



Dimensions in inches and (millimeters)

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