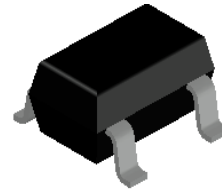


Features

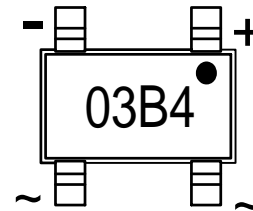
- Low profile space
- Ideal for printed circuit board
- Low reverse leakage
- Applied in LED lighting
- High ring wave immunity capability
- High temperature soldering guaranteed:
260°C/10 seconds
- Component in accordance to
RoHS 2011/65/EU and WEEE 2002/96/EC



RoHS
COMPLIANT

Mechanical Data

- **Case:**IBS
The plastic package carries Underwriters Laboratory
Flammability Classification 94V-0
- **Terminals:** Solder plated, solderable per
MIL-STD-750, Method 2026
- **Polarity:** Mark a dot at the positive position
The other end on the same side is negative
AC pole is on the other side
- **Mounting Position:** Any



Major Ratings and Characteristics

$I_{F(AV)}$	0.3A
V_{RRM}	400V to 1000V
I_{FSM}	16A
V_F	0.92V
$T_{Jmax.}$	125°C

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

Items	Symbol	IB034S	IB036S	IB038S	IB0310S	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	400	600	800	1000	V
Average forward rectified current	$I_{F(AV)}$	0.3				A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	16				A
Rating for fusing ($t < 8.3$ ms)	I^2t	1.05				A ² s
Thermal resistance from junction to ambient	$R_{\theta JA}^{(1)}$	180				°C/W
	$R_{\theta JA}^{(2)}$	67				
Thermal resistance from junction to lead	$R_{\theta JL}$	35				
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +125				°C

Note 1: On 1.6mm thick glass epoxy P.C.B.(1OZ) mounted on 0.05 x 0.05" (1.3 x 1.3 mm) solder pads.

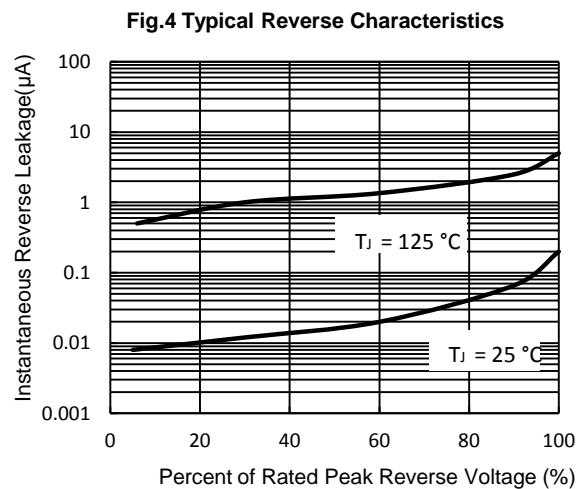
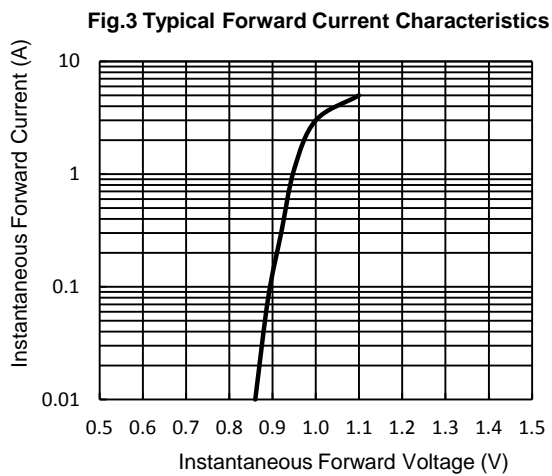
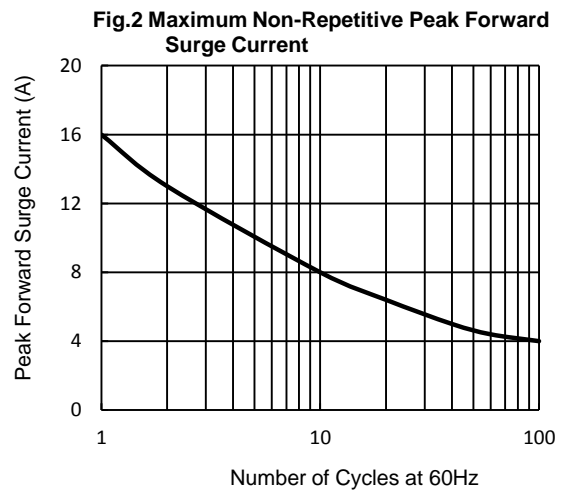
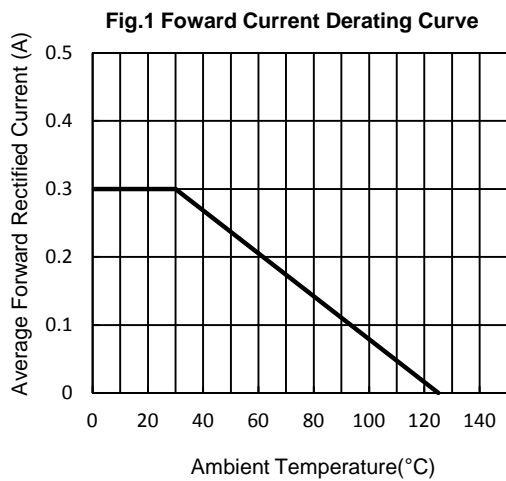
Note 2: On 1.6mm thick aluminum substrate P.C.B.(1OZ) with an area of 0.8" x 0.8" (20 x 20 mm) mounted on 0.05 x 0.05" (1.3 x 1.3 mm) solder pad.

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

Items	Test conditions	Symbol	Min.	Typ.	Max.	Unit
Instantaneous forward	I _F =0.3A ⁽³⁾	V _F	-	0.92	0.98	V
Reverse current	V _R =V _{DC}	I _R	-	-	5.0	μA
					T _J =25°C	
					100.0	

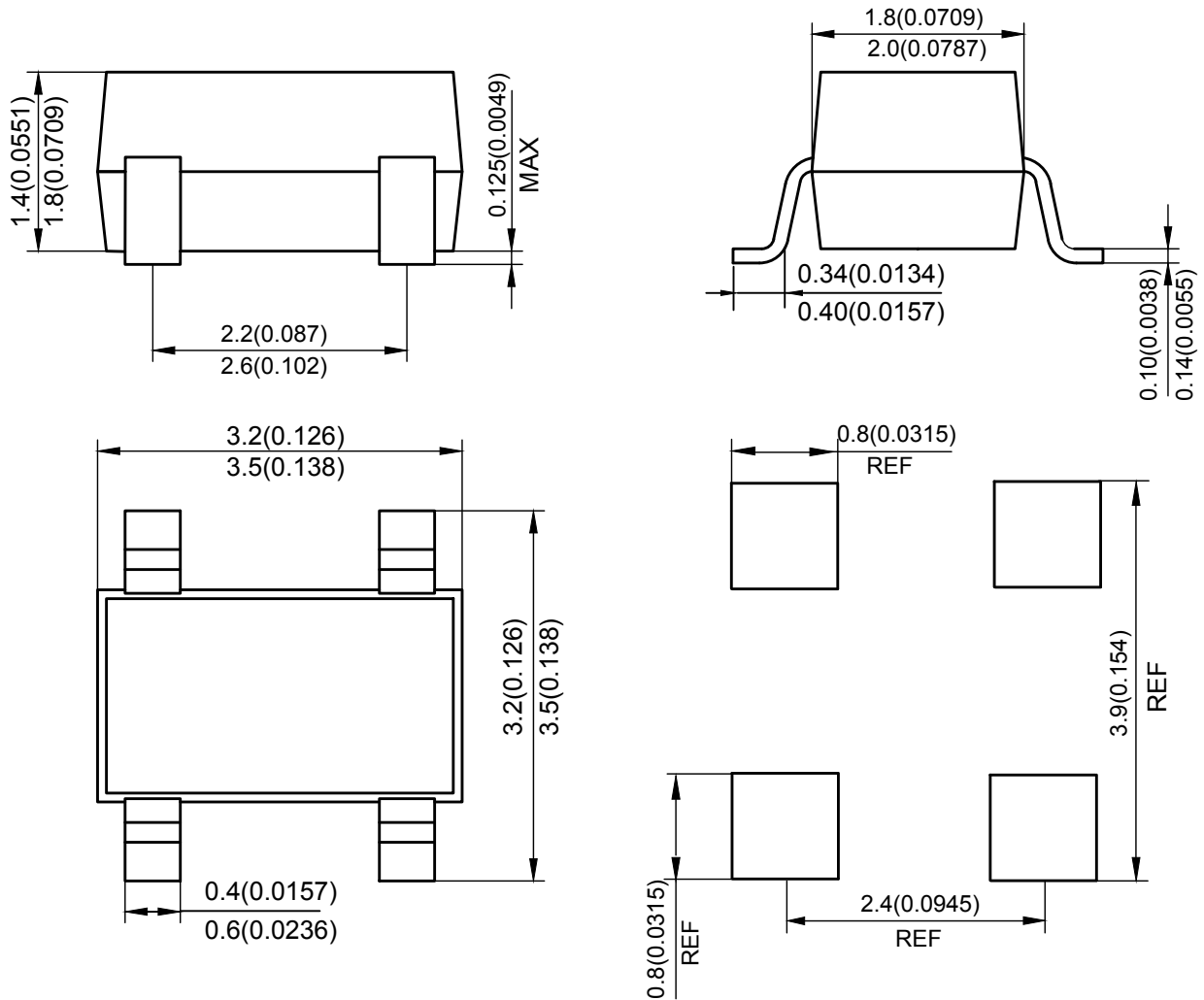
Note 3: Pulse test:300μs pulse width,1% duty cycle.

Characteristics Curves



Package Outline

IBS



Dimensions in millimeters(inches)