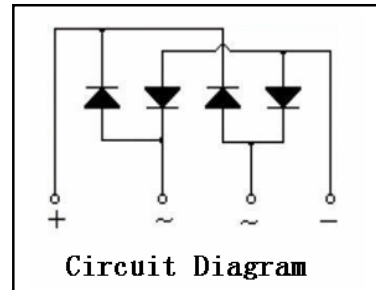
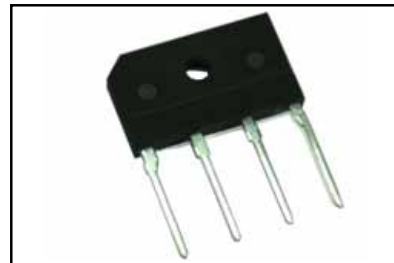


# Bridge rectifiers

## Feature

- . Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- . This series is UL listed under the Recognized Component index, file number E231047
- . Single-in-line package
- . High current capacity with small package
- . Superior thermal conductivity
- . High temperature soldering guaranteed:  
260 /10 seconds
- . High  $I_{FSM}$
- . We declare that the material of product compliance with RoHS requirements.

**D3SB10 Thru D3SB100**  
**RBV402S Thru RBV407S**



## Product Characteristic

Parameter Symbol	Symbol	D3SB10	D3SB20	D3SB40	D3SB60	D3SB80	D3SB100	Unit
		RBV402S	RBV403S	RBV404S	RBV405S	RBV406S	RBV407S	
Maximum repetitive voltage	$V_{RM}$	100	200	400	600	800	1000	V
Maximum DC reverse current at rated DC blocking voltage	$I_R$	10						$\mu A$
		500						
Average rectified forward current 60Hz Sine wave Resistance load	$I_o$	4 <sup>(1)</sup>						A
		1.8 <sup>(2)</sup>						
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	120						A
Dielectric strength terminals to case , AC 1 minute Current 1mA	$V_{dia}$	2.5						KV
Max instantaneous forward voltage at 2.0A	$V_F$	1.1						V
Operating junction temperature	$T_J$	150						
Maximum thermal resistance per leg on P.C.B. without heat-sink on Al plate heat-sink	$R_{\theta JA}$	26 <sup>(2)</sup>						/W
	$R_{\theta JC}$	4.2 <sup>(1)</sup>						
Storage temperature	$T_{stg}$	-40~150						

- Notes :** (1)Unit case mounted on Al plate heat-sink  
 (2) Unites mounted on P.C.B. without heat-sink  
 (3)Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw(heat-sink size:6.5\*4.0\*0.3cm)

## Characteristic Curves

Fig. 1 Derating Curve

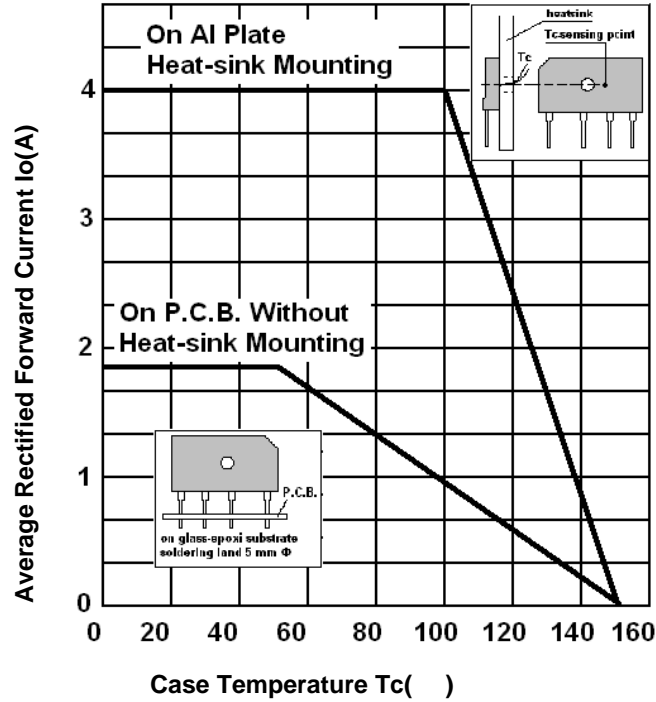


Fig.2 Typical Reverse Characteristics

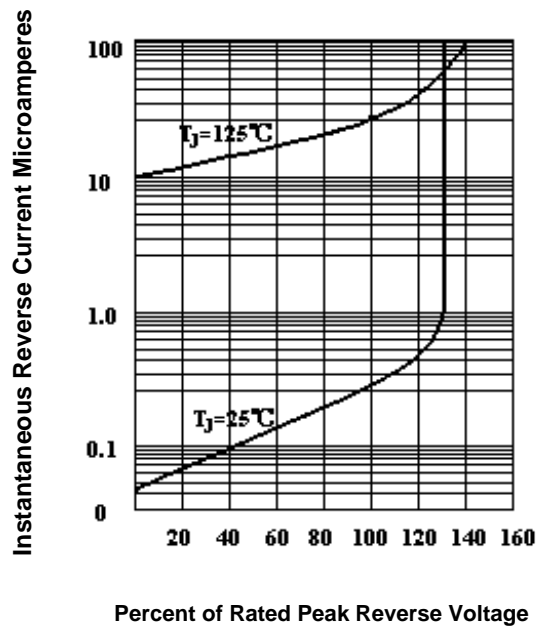


Fig.3 Peak Surge Forward capability

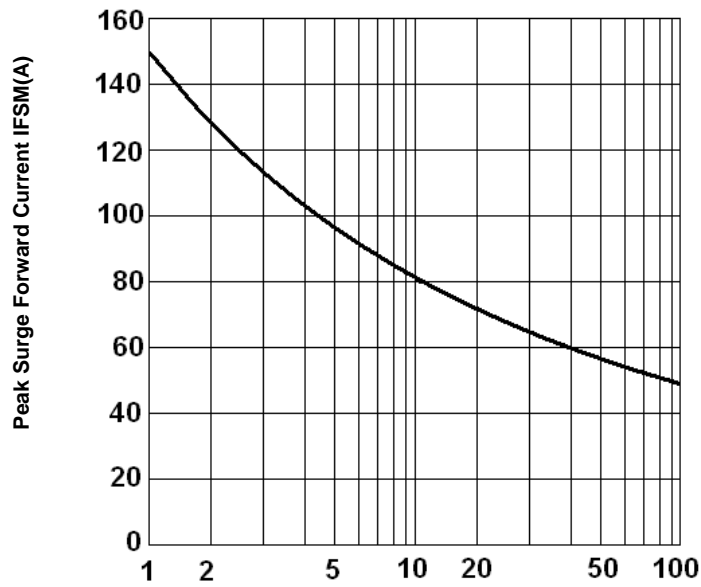
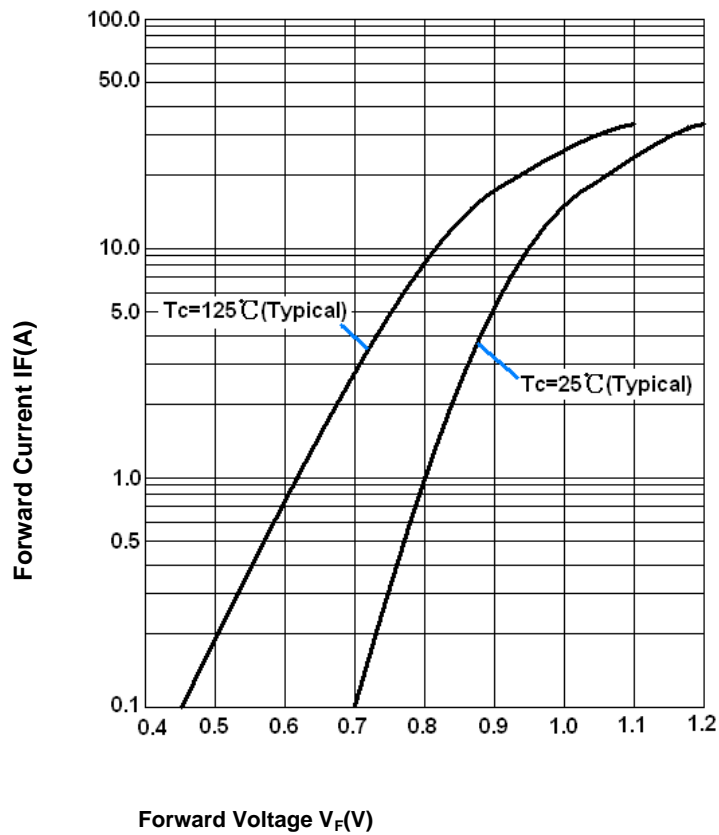
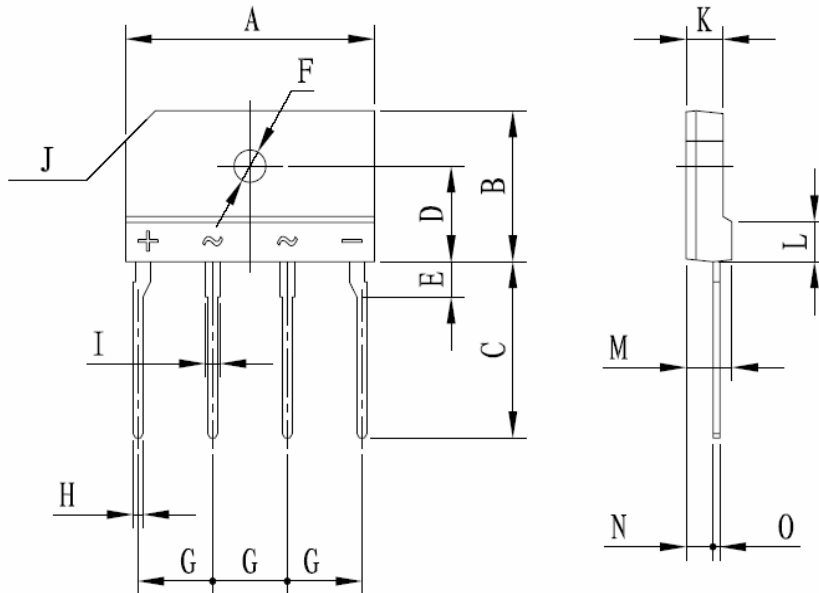


Fig.4 Forward Voltage



## SHAPE AND DIMENSIONS



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.972	0.996	24.70	25.30
B	0.579	0.602	14.70	15.30
C	0.669	0.709	17.00	18.00
D	0.366	0.382	9.30	9.70
E	0.118	0.157	3.00	4.00
F	0.122	0.134	3.10	3.40
G	0.287	0.303	7.30	7.70
H	0.04	0.04	0.90	1.10
I	0.051	0.067	1.30	1.70
J	0.118*45°		3*45°	
K	0.138	0.154	3.50	3.90
L	0.18		4.50	
M	0.173	0.189	4.40	4.80
N	0.098	0.114	2.50	2.90
O	0.020	0.035	0.50	0.90

- NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSII Y14.5M, 1982.  
2. CONTROLLING DIMENSION: mm.