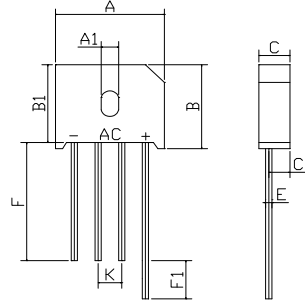


### FEATURES

- Rating to 1000V PRV
- Surge overload rating to 150 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208



KBU		
Dim	Min	Max
A	22.80	23.20
A1	3.70	4.10
B	18.90	19.30
B1	17.60	18.00
C	6.55	6.85
C1	4.50	4.80
E	Ø1.20	Ø1.40
F	25min	
F1	4min	
K	4.70	5.30
All Dimensions in mm		

### Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	RS401	RS402	RS403	RS404	RS405	RS406	RS407	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward Output current @TA=25°C	$I_{F(AV)}$	4.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	150							A
I <sup>2</sup> t Rating for fusing @Tj=25°C	I <sup>2</sup> t	93							A <sup>2</sup> S
Typical Junction Capacitance ( Note1)	CJ	55							pF

### Thermal Characteristics

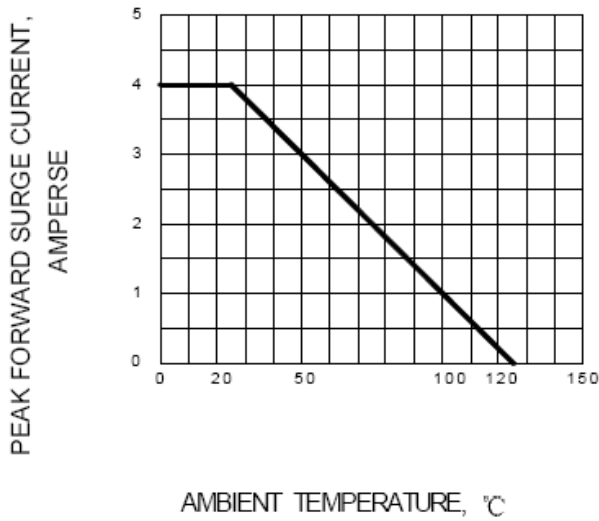
Characteristic	Symbol	RS401	RS402	RS403	RS404	RS405	RS406	RS407	UNITS
Typical thermal resistance per leg	$R_{\theta JA}$	20							°C/W
Operating junction temperature range	$T_J$	- 55 ---- + 150							°C
Storage temperature range	$T_{STG}$	- 55 ---- + 150							°C

### Electrical Characteristics (@TA = 25°C unless otherwise specified)

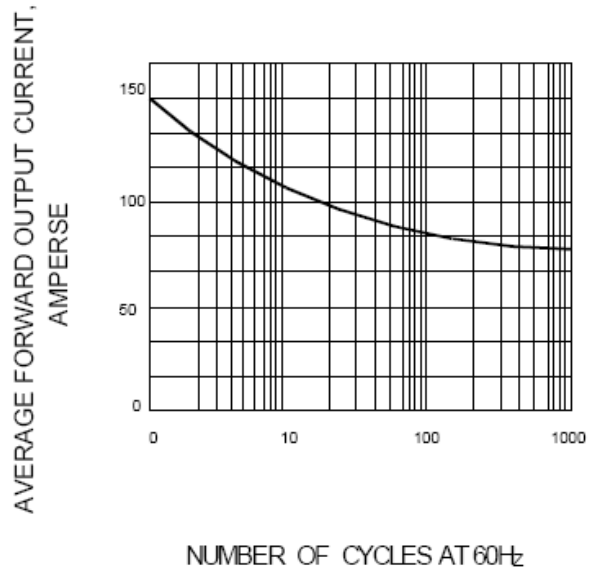
Characteristic	Symbol	RS401	RS402	RS403	RS404	RS405	RS406	RS407	UNITS
Maximum instantaneous forward voltage @2.0A	$V_F$	1.0							V
Maximum reverse current @TA=25°C at rated DC blocking voltage @TA=100°C	$I_R$	10							µ A
		1.0							m A



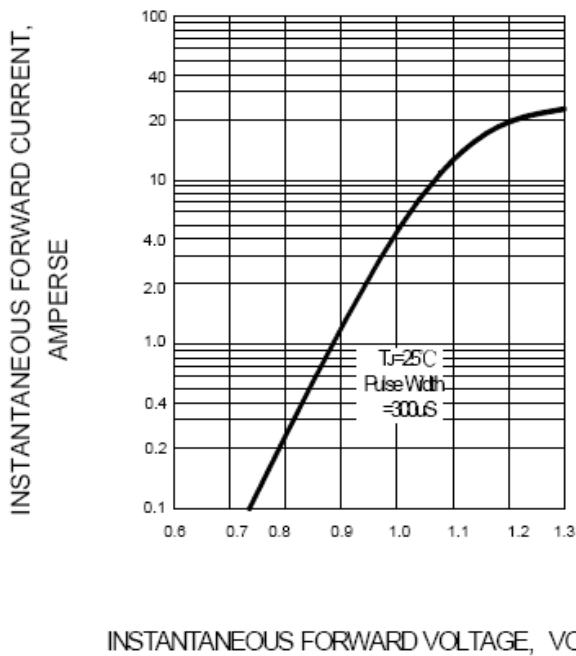
**FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE**



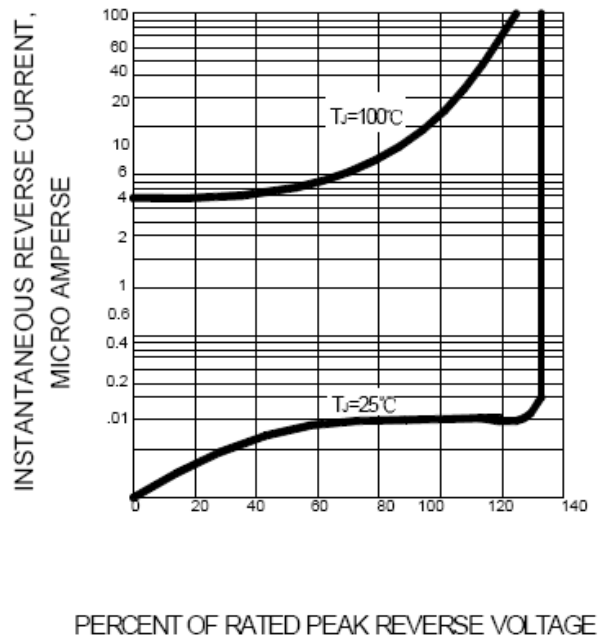
**FIG.2 – MAXIMUM FORWARD SURGE CURRENT**



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL REVERSE CHARACTERISTIC**



Device	Package	Shipping
RS401-RS407	KBU	400 Units/Box