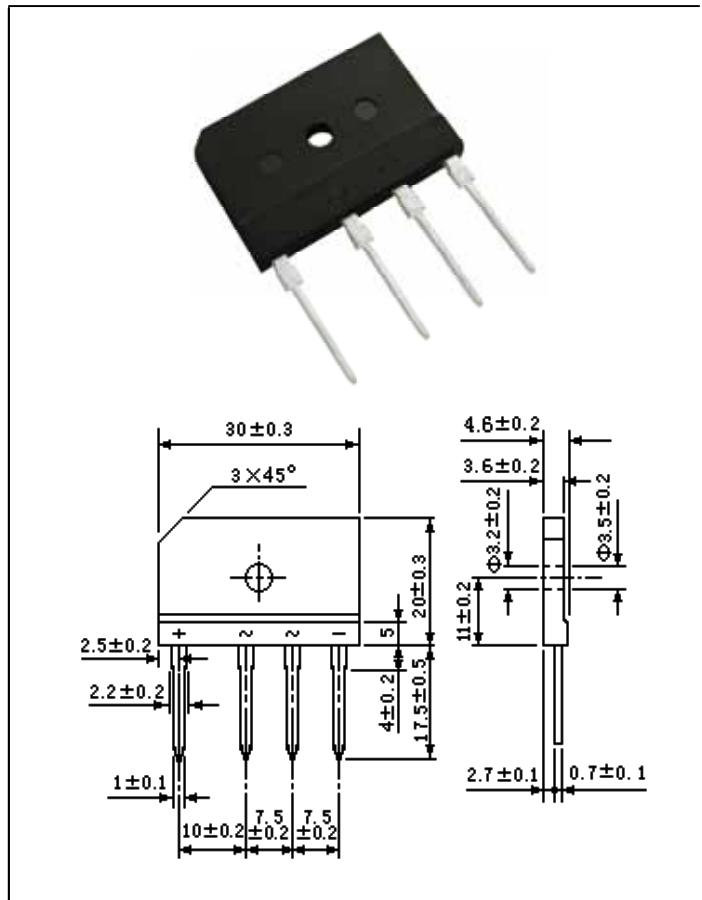


## D25SB10(RBV2502S) Thru D25SB100(RBV2507S)

### FEATURES

- . 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 capality with small package
- . Superior thermal conductivity
- . High temperature soldering guaranteed:  
260 /10 seconds
- . High  $I_{F\text{SM}}$

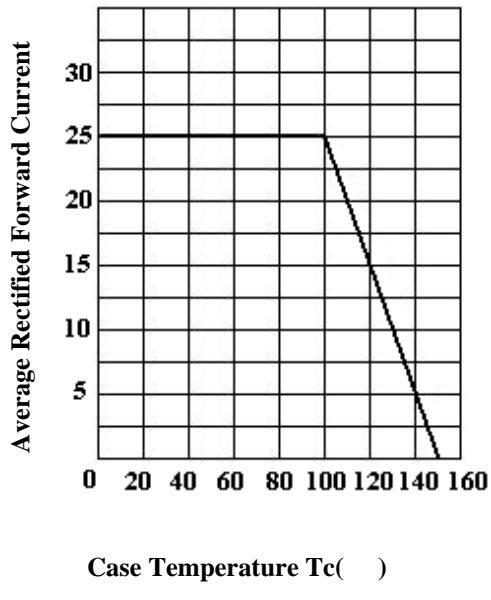


**Maximum Ratings & Thermal Characteristics Ratings at 25° ambient temperature unless otherwise specified.**

Parameter Symbol	Symbol	D25SB10	D25SB20	D25SB40	D25SB60	D25SB80	D25SB100	Unit
		RBV2502S	RBV2503S	RBV2504S	RBV2505S	RBV2506S	RBV2507S	
Maximum repetitive voltage	$V_{RM}$	100	200	400	600	800	1000	V
Maximum DC reverse current at rated DC blocking voltage	$I_R$			5	500			$\mu\text{A}$
Average rectified forward current 60Hz Sine wave Resistance load with heat sink $T_c=100$	$I_o$			25				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{F\text{SM}}$			350				A
Dielectric strength Terminals to case , AC 1 minute Current 1mA	$V_{dia}$			2.5				KV
Max instantaneous forward voltage at 12.5A	$V_F$			1.1				V
Operating junction temperature	$T_J$			150				
Storage temperature	$T_{stg}$			-40~150				

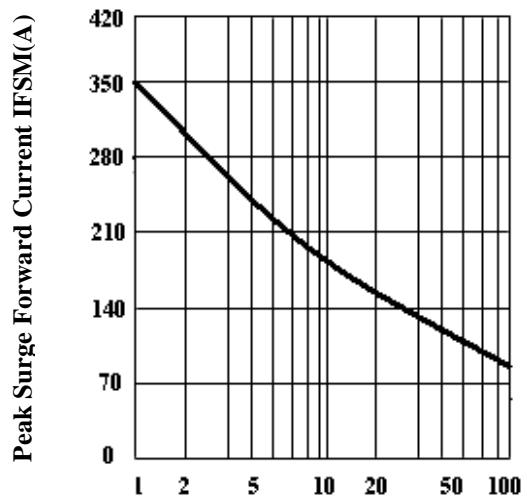
## D25SB10(RBV2502S) Thru D25SB100(RBV2507S)

**Fig.1 derating Curve**



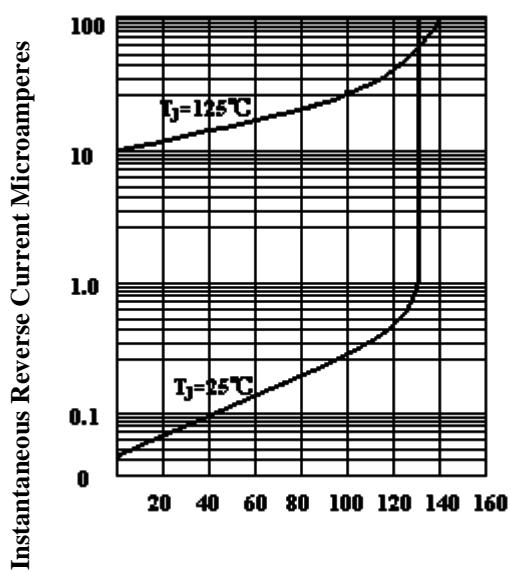
Case Temperature Tc( °C )

**Fig.2 Peak Surge Forward capability**



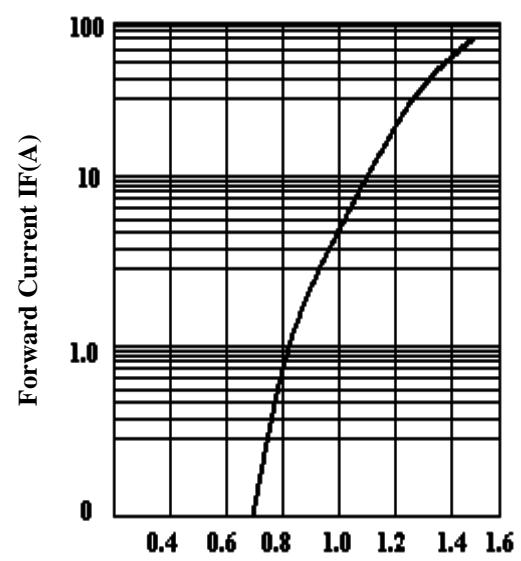
Number of Cycles at 60 Hz(cycles)

**Fig.3 Typical Reverse Characteristics**



Percent of Rated Peak Reverse Voltage%

**Fig.4 Forward Voltage**



Forward Voltage V<sub>F</sub> (V)