

# SKT2S - SKTBS

**PRV : 20 - 100 Volts**  
**I<sub>o</sub> : 2.5 Amperes**

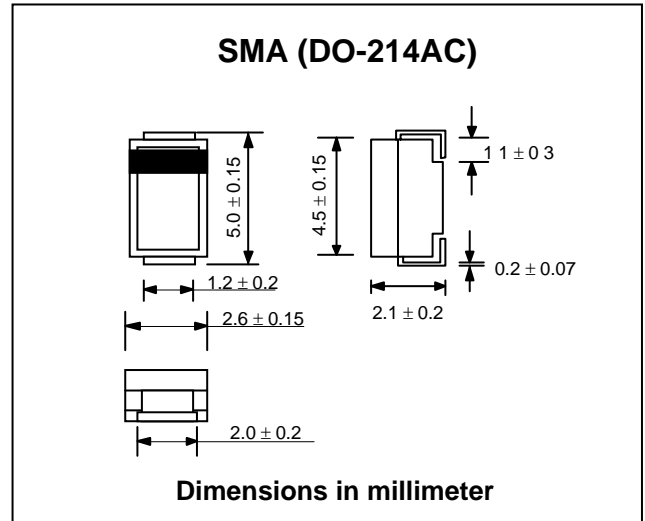
### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* High efficiency
- \* Low power loss
- \* Low cost
- \* Low forward voltage drop
- \* Pb / RoHS Free

### MECHANICAL DATA :

- \* Case : SMA (DO-214AC) Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Lead Formed for Surface Mount
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.067 gram

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specific.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

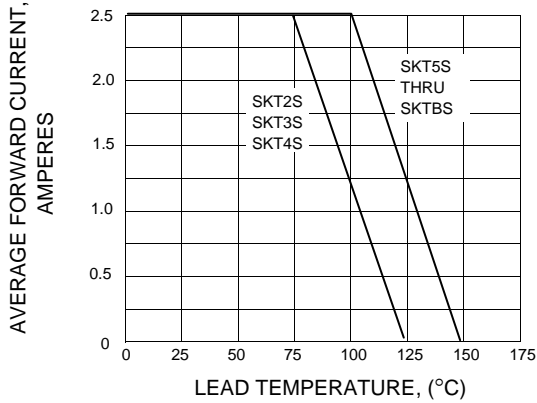
RATING	SYMBOL	SKT	SKT	SKT	SKT	SKT	SKT	SKT	SKT	SKT	SKT	UNIT
		2S	3S	4S	5S	6S	7S	8S	9S	BS		
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	70	80	90	100		V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	49	56	63	70		V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	70	80	90	100		V
Maximum Average Forward Current See Fig.1	I <sub>F(AV)</sub>	2.5										A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	75										A
Maximum Forward Voltage at I <sub>F</sub> = 2.5 A (Note 1)	V <sub>F</sub>	0.5		0.74			0.79				V	
Maximum Reverse Current at Rated DC Blocking Voltage (Note 1)	I <sub>R</sub>	0.5										mA
Junction Temperature Range	T <sub>J</sub>	- 65 to + 125			- 65 to + 150							°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150										°C

### Note :

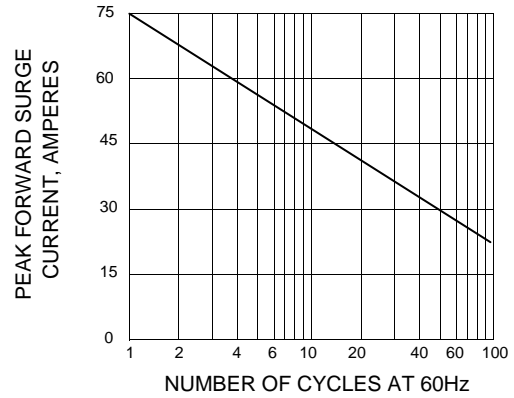
(1) Pulse Test : Pulse Width = 300µs, Duty Cycle = 2%.

**RATING AND CHARACTERISTIC CURVES ( SKT2S - SKTBS )**

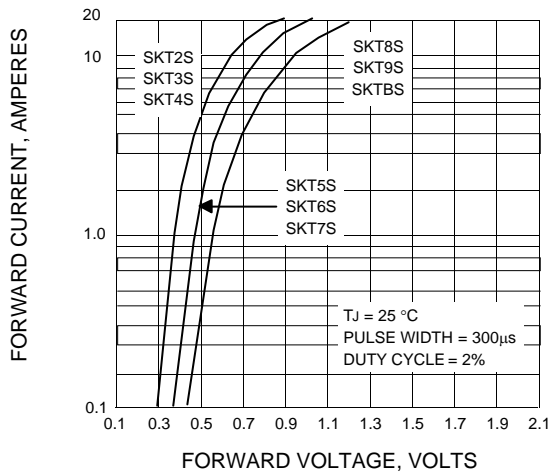
**FIG.1 - FORWARD CURRENT DERATING CURVE**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

