

# S30VT160

Bridge Diodes  
1600V, 30A

### Feature

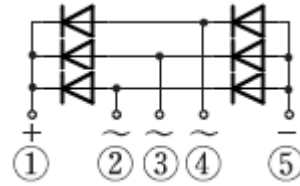
- Faston Terminal
- High Voltage
- Pb free terminal
- RoHS:Yes

### OUTLINE

Package (House Name): SVT



### Equivalent circuit



### Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-40 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		1600	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, With heatsink, Tc=116°C	30	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	350	A
Current squared time	I <sup>2</sup> t	1ms ≤ t < 10ms, Tj=25°C, per diode	300	A <sup>2</sup> s
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 0.6N·m)	0.8	N·m

※ : See the original Specifications

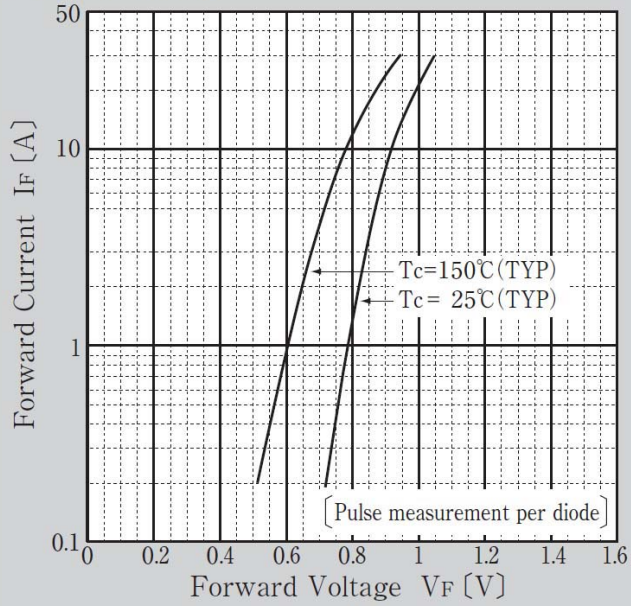
**Electrical Characteristics** (unless otherwise specified : T<sub>c</sub>=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10A, Pulse measurement, per diode			1.05	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =1600V, Pulse measurement, per diode			100	μA
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case, With heatsink			0.5	°C/W

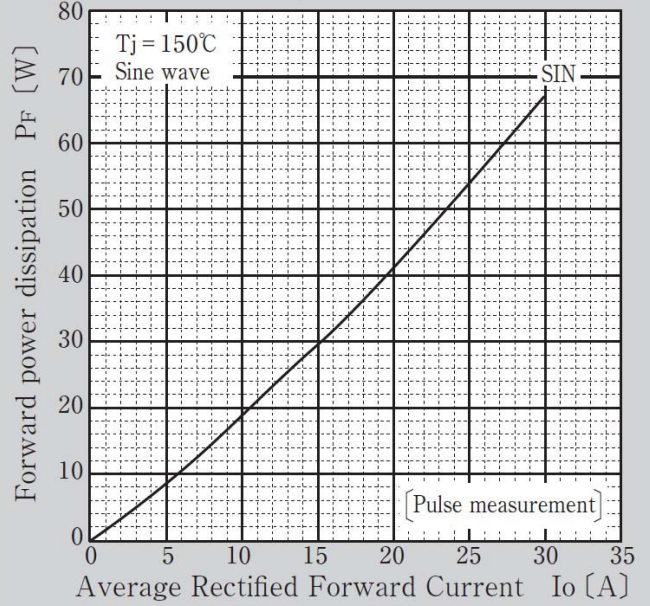
\* : See the original Specifications

# CHARACTERISTIC DIAGRAMS

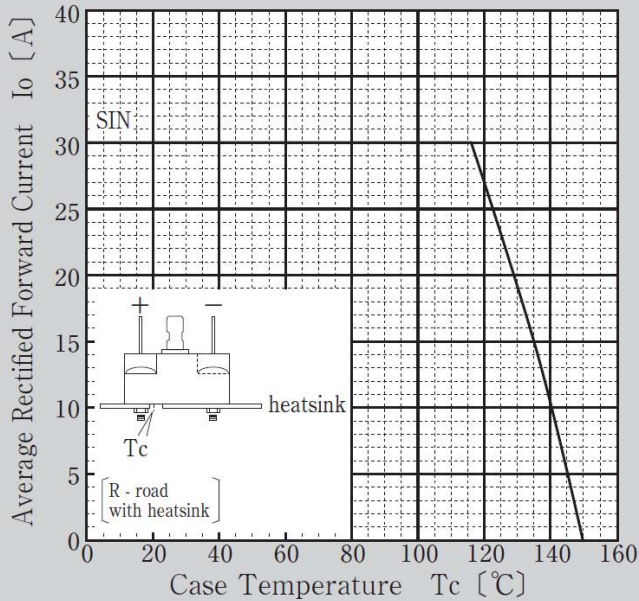
### Forward Voltage



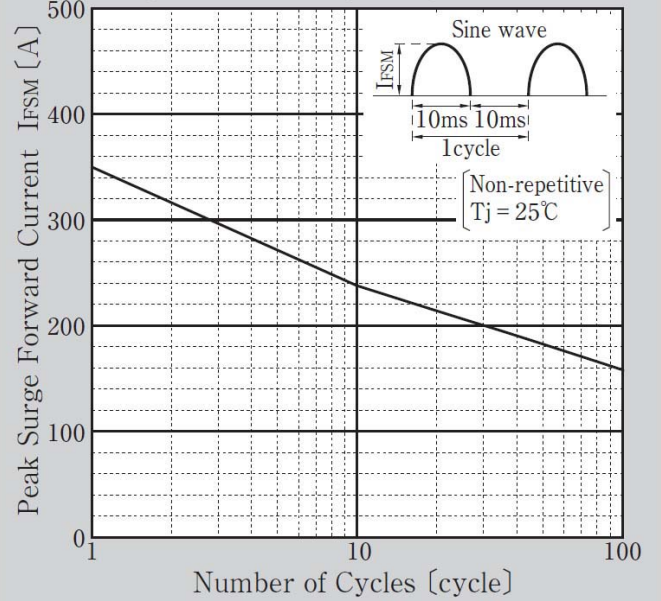
### Forward Power Dissipation



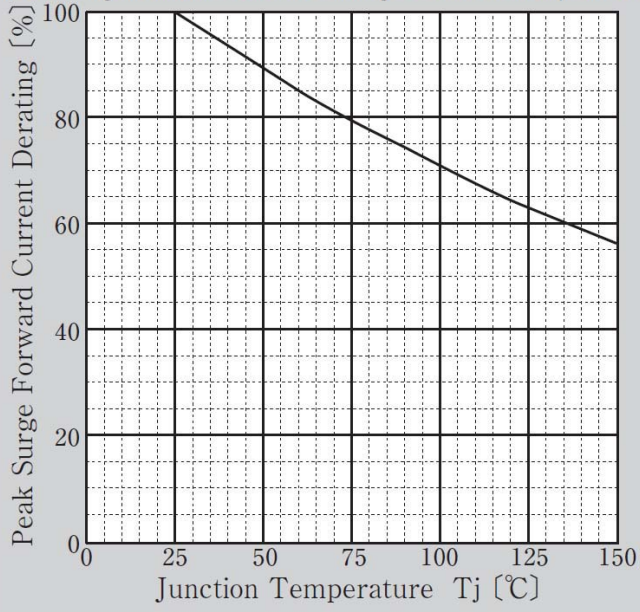
### Derating Curve



### Peak Surge Forward Capability



Peak Surge Forward Current Derating vs Junction Temperature





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