

S30VT160

Bridge Diodes
1600V, 30A

Feature

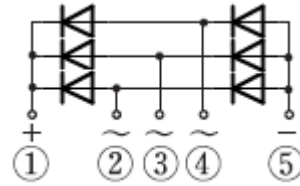
- Faston Terminal
- High Voltage
- Pb free terminal
- RoHS:Yes

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 _{RRM}		1600	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, With heatsink, Tc=116°C	30	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	350	A
Current squared time	I ² t	1ms ≤ t < 10ms, Tj=25°C, per diode	300	A ² 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

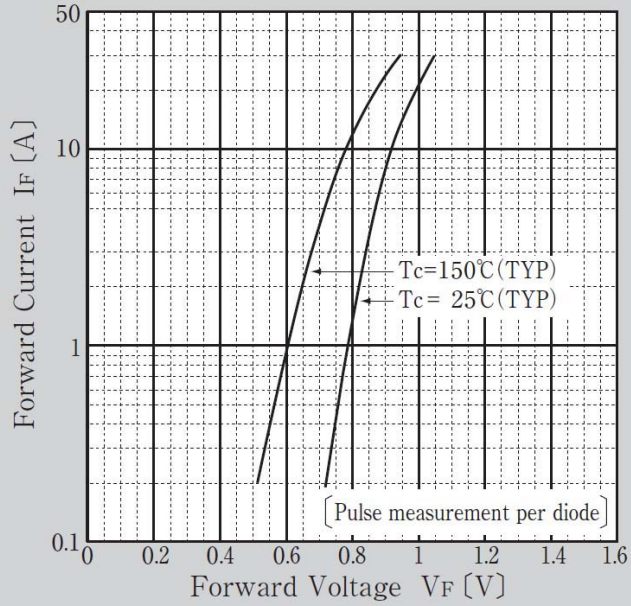
Electrical Characteristics (unless otherwise specified : Tc=25°C)

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

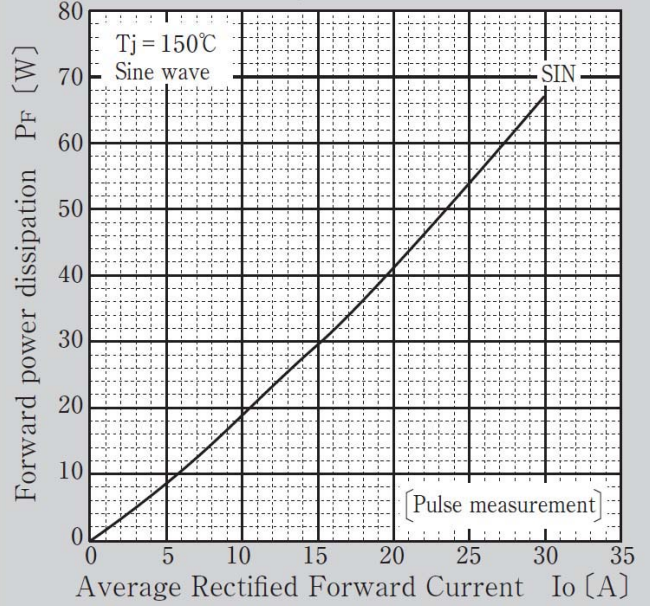
* : See the original Specifications

CHARACTERISTIC DIAGRAMS

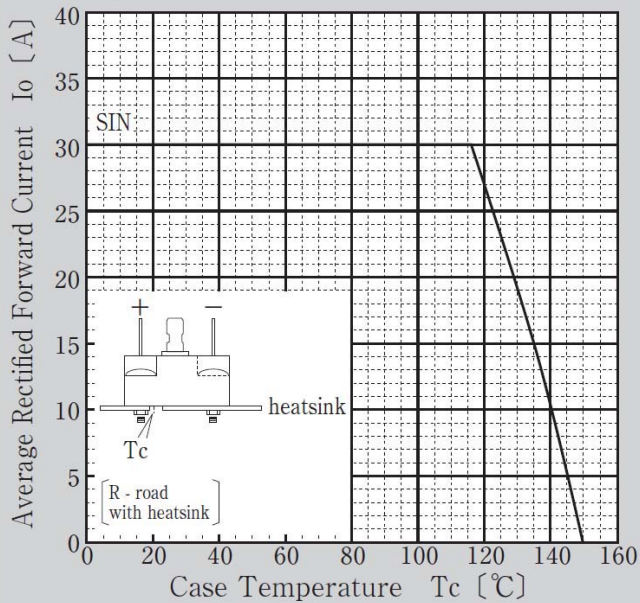
Forward Voltage



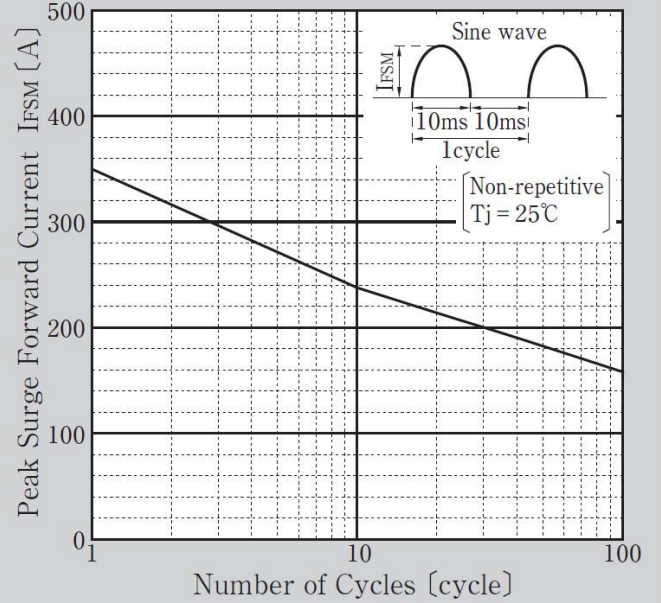
Forward Power Dissipation



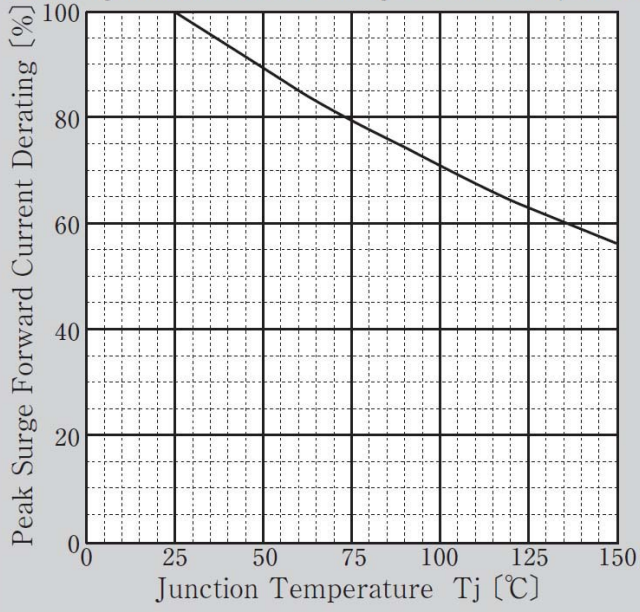
Derating Curve



Peak Surge Forward Capability

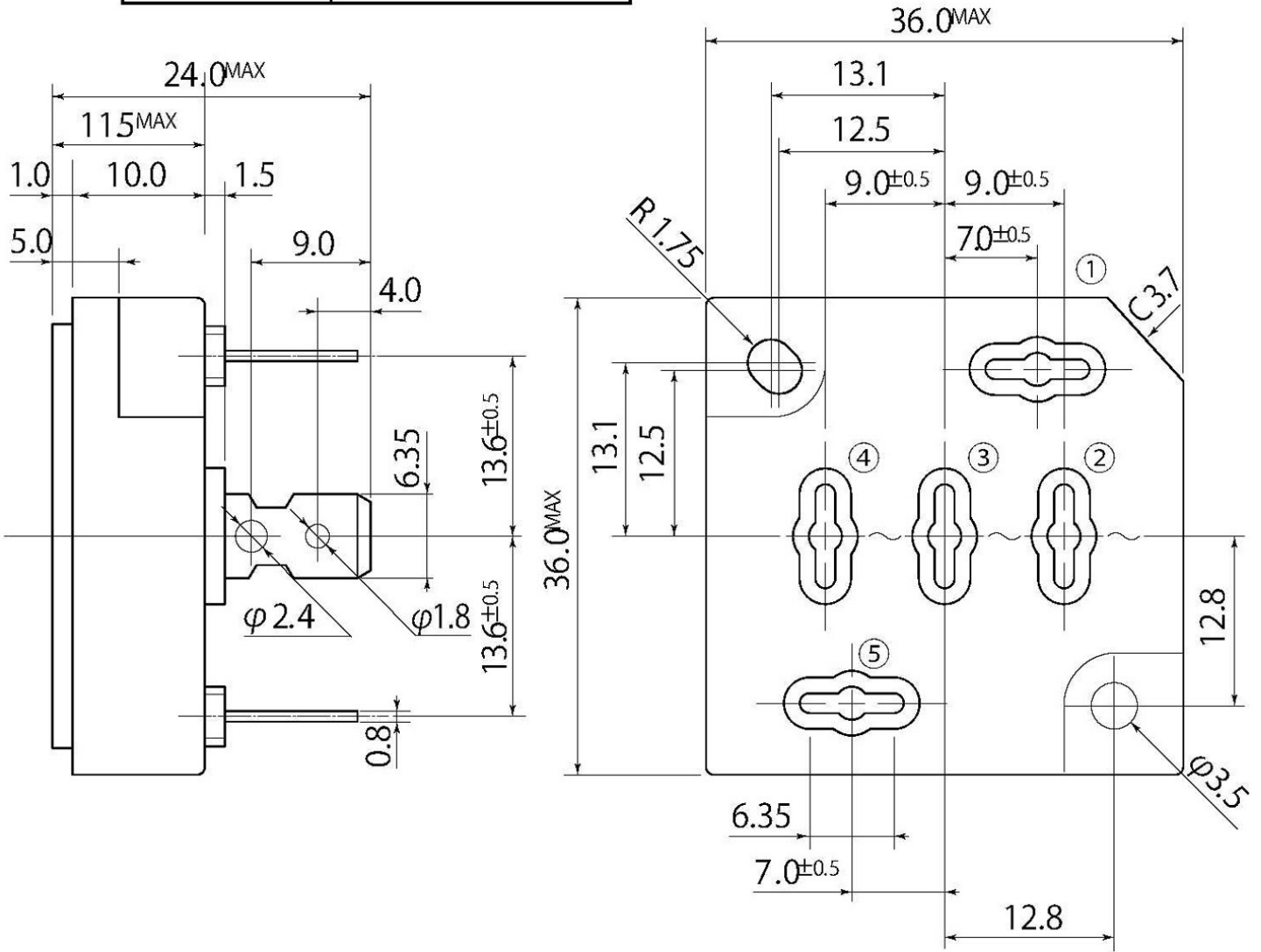


Peak Surge Forward Current Derating vs Junction Temperature



E15

JEDEC Code	-
JEITA Code	-
House Name	SVT



Notes

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