

S20VT60

Bridge Diodes
600V, 20A

Feature

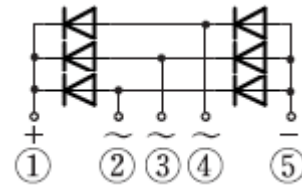
- Faston Terminal
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): SVT



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-40 to 150	°C
Junction temperature	T _j		150	°C
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, With heatsink, T _c =128°C	20	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, T _j =25°C	300	A
Current squared time	I ² t	1ms ≤ t < 10ms, T _j =25°C, per diode	300	A ² s
Dielectric strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 0.6N·m)	0.8	N·m

※ : See the original Specifications

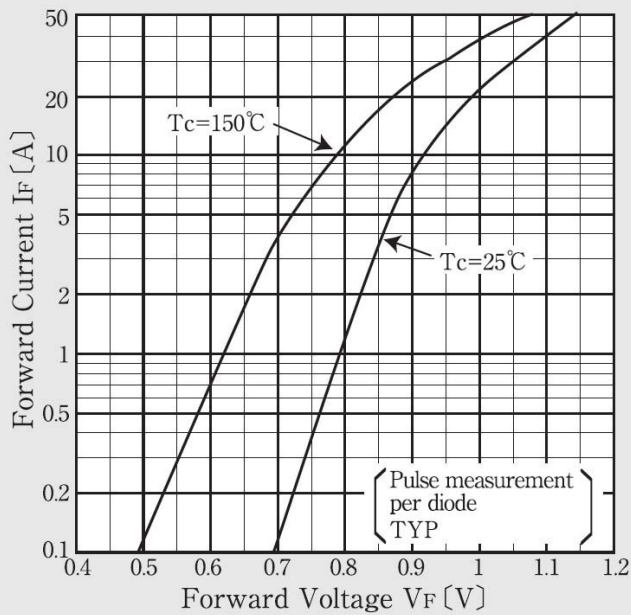
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=7A$, Pulse measurement, per diode			1.05	V
Reverse current	I_R	$V_R=600V$, Pulse measurement, per diode			10	μA
Thermal resistance	$R_{th(j-c)}$	Junction to case			0.55	$^{\circ}C/W$

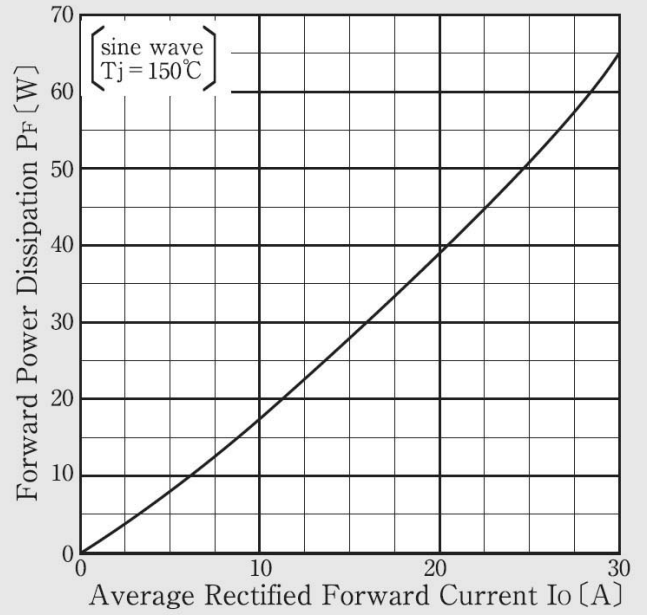
* : See the original Specifications

CHARACTERISTIC DIAGRAMS

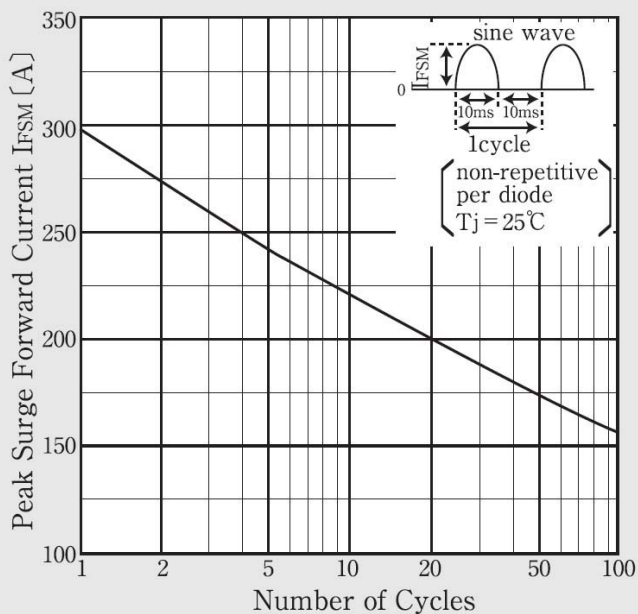
Forward Voltage



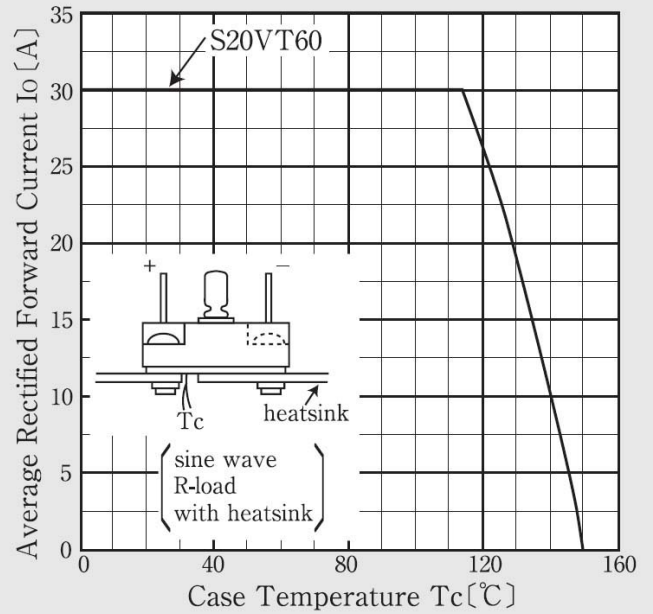
Forward Power Dissipation



Peak Surge Forward Current Capability

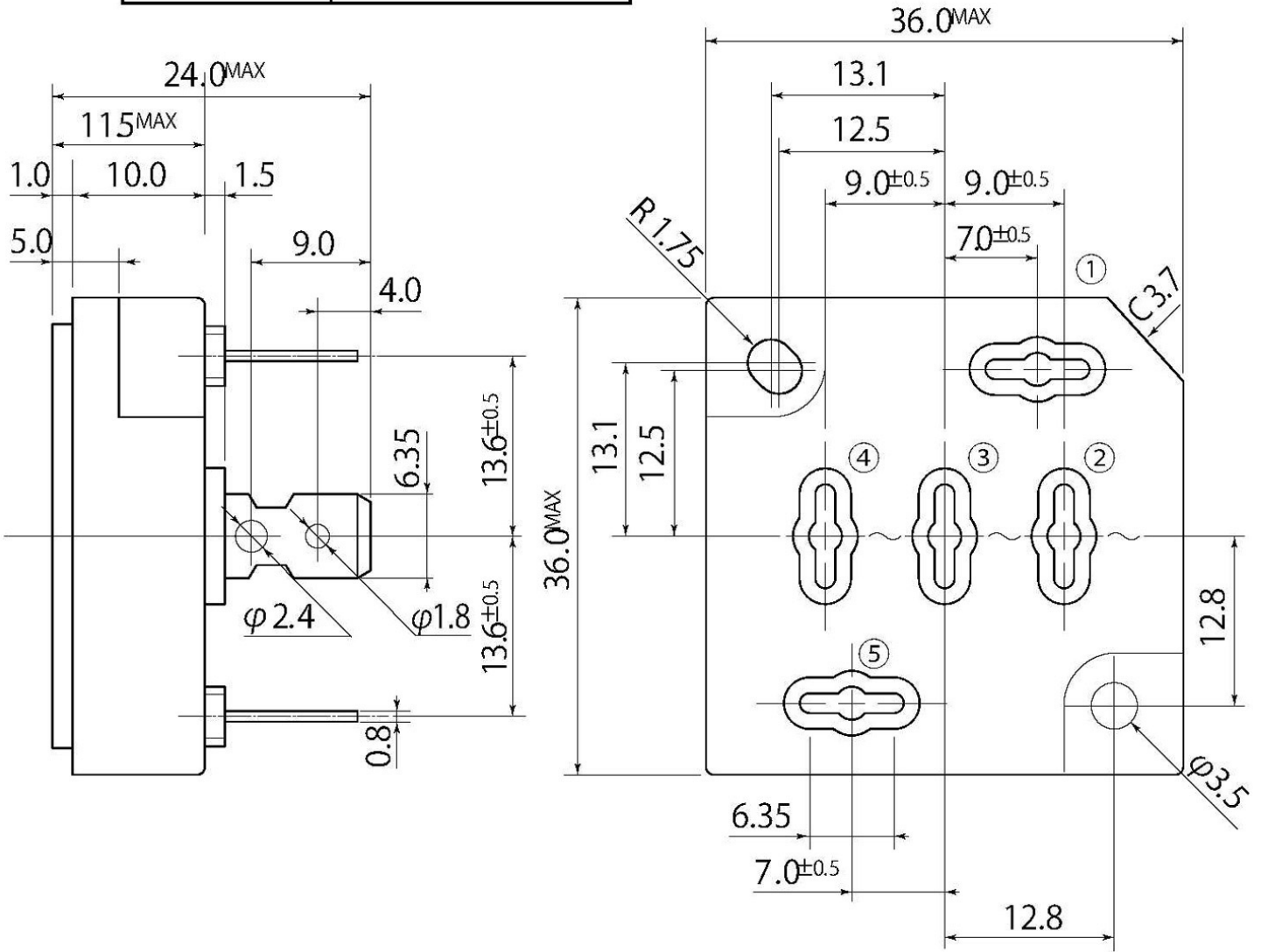


Derating Curve



E15

JEDEC Code	-
JEITA Code	-
House Name	SVT



Notes

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