

S30VT160

Bridge Diodes 1600V, 30A

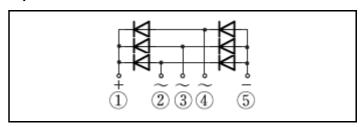
Feature

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

OUTLINE



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	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	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	350	А
Current squared time	l²t	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

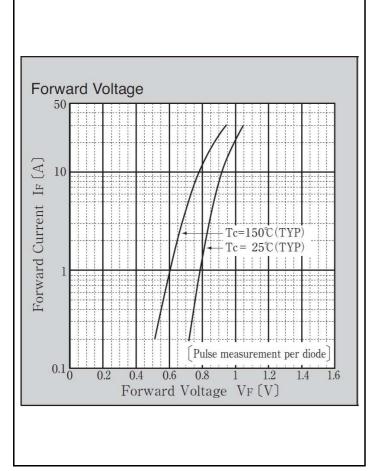
^{* :} See the original Specifications

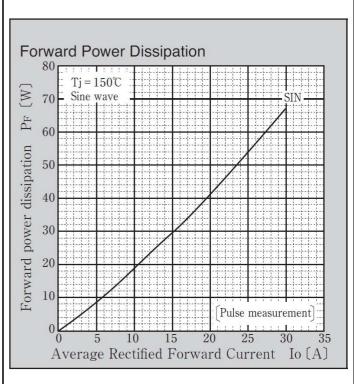
Electrical Characteristics (unless otherwise specified : Tc=25°C)

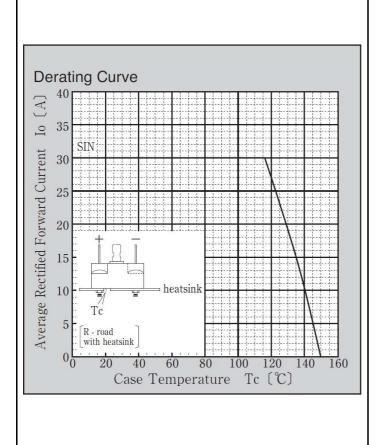
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=10A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	VR=1600V, Pulse measurement, per diode			100	μΑ
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.5	°C/W

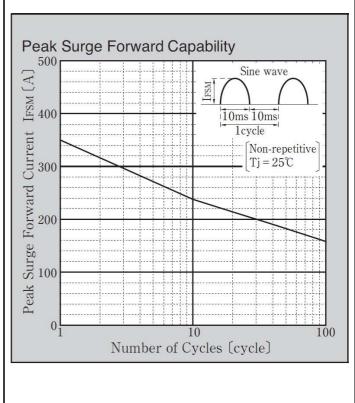
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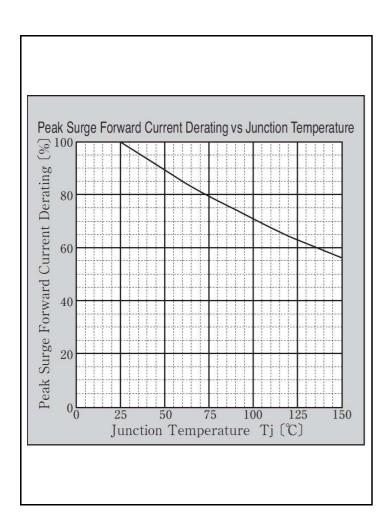
CHARACTERISTIC DIAGRAMS

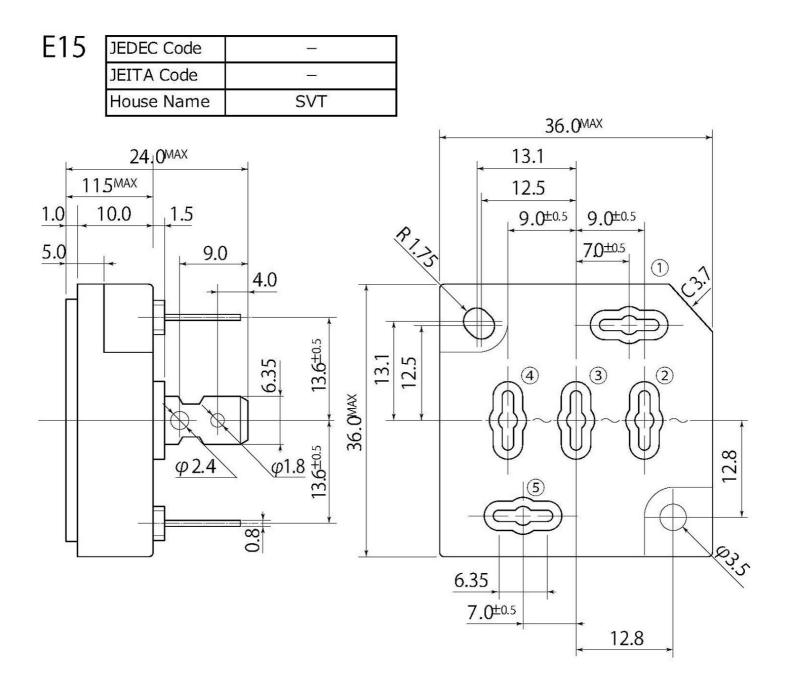












Notes

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(Special applications)

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