

# S30VTA160

Bridge Diodes  
1600V, 30A

**Feature**

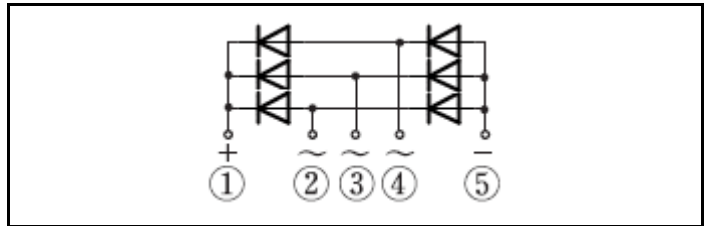
- Lead Terminal
- Pb free terminal
- RoHS:Yes

**OUTLINE**

Package (House Name): SVTA



**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	VRRM		1600	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=116°C	30	A
Surge forward current	IFSM	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

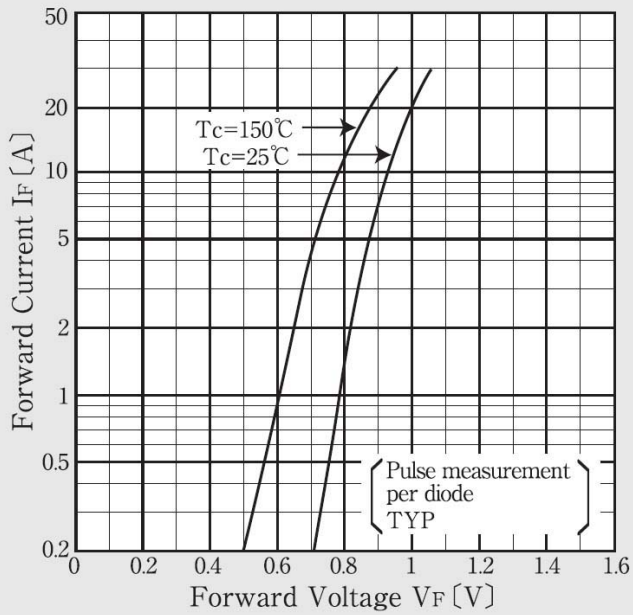
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

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	$\mu$ A
Thermal resistance	Rth(j-c)	Junction to case			0.5	°C/W

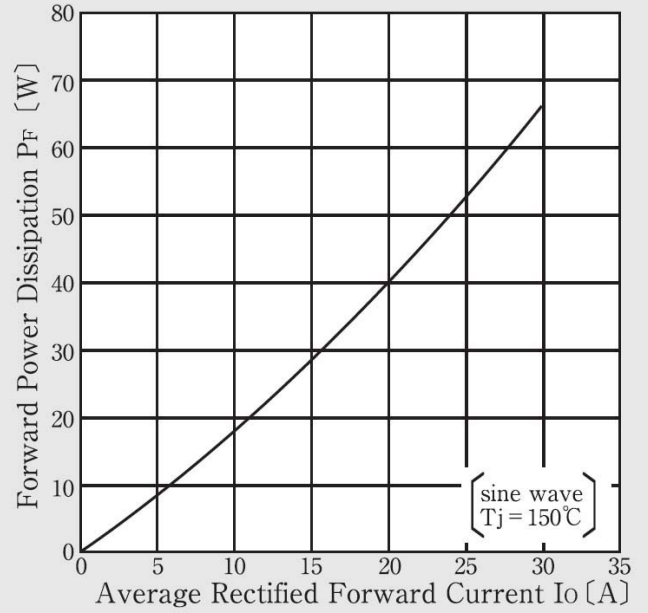
\* :See the original Specifications

# CHARACTERISTIC DIAGRAMS

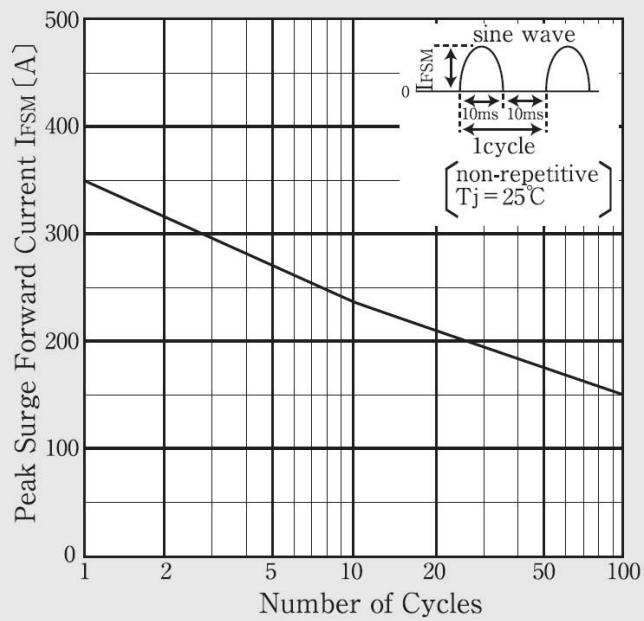
### Forward Voltage



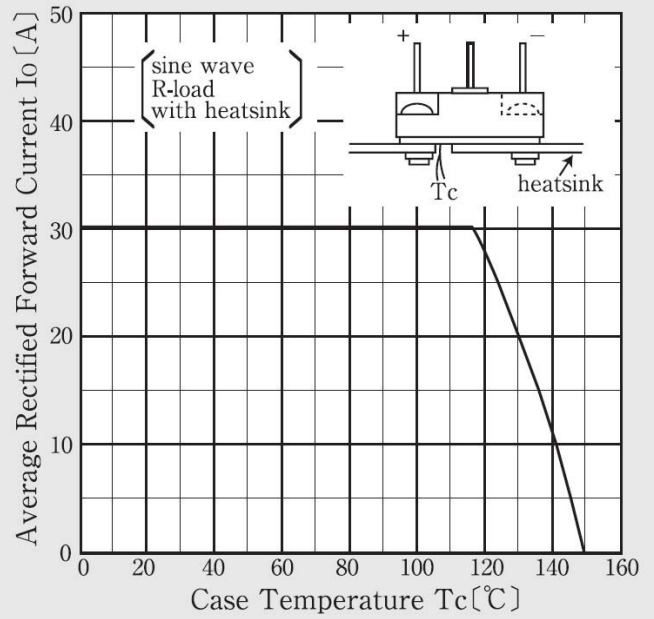
### Forward Power Dissipation



### Peak Surge Forward Current Capability



### Derating Curve





## Notes

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