

S10VTA60

Bridge Diodes
600V, 10A

Feature

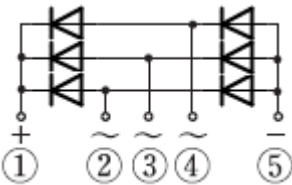
- Lead Terminal
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): SVTA



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		-40 to 150	°C
Repetitive peak reverse voltage	VRRM		600	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=137°C	10	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	170	A
Current squared time	I²t	2ms≤tp<10ms, Tj=25°C, per diode	140	A²s
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

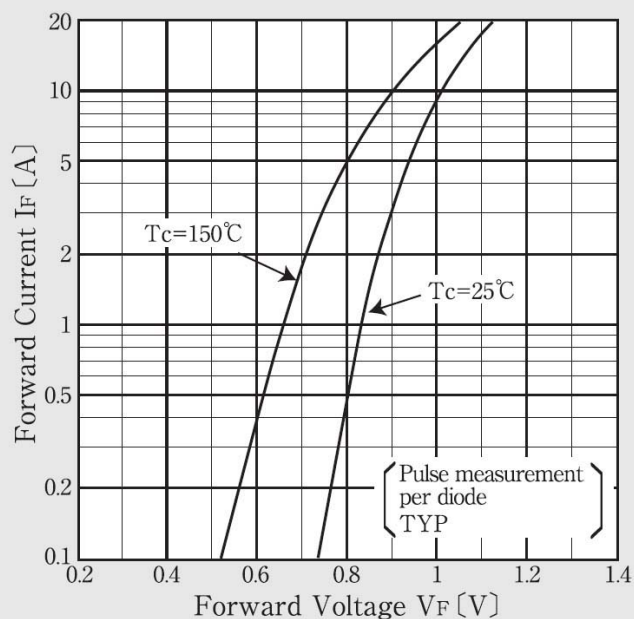
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=3.5A$, 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, With heatsink			0.65	$^{\circ}C/W$

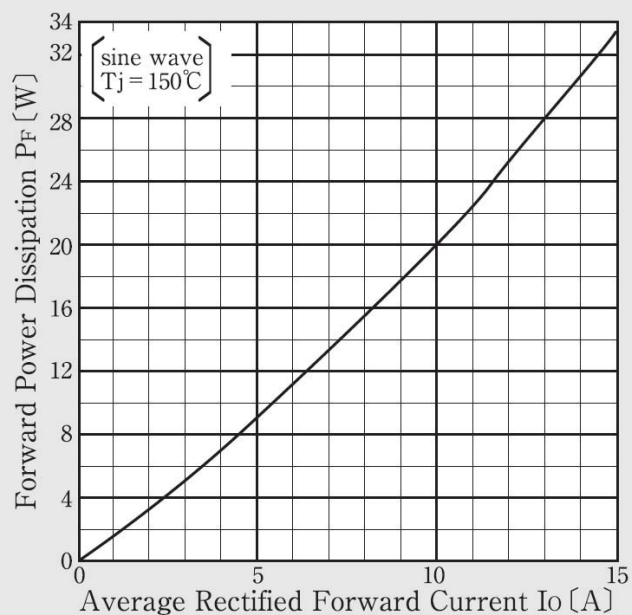
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

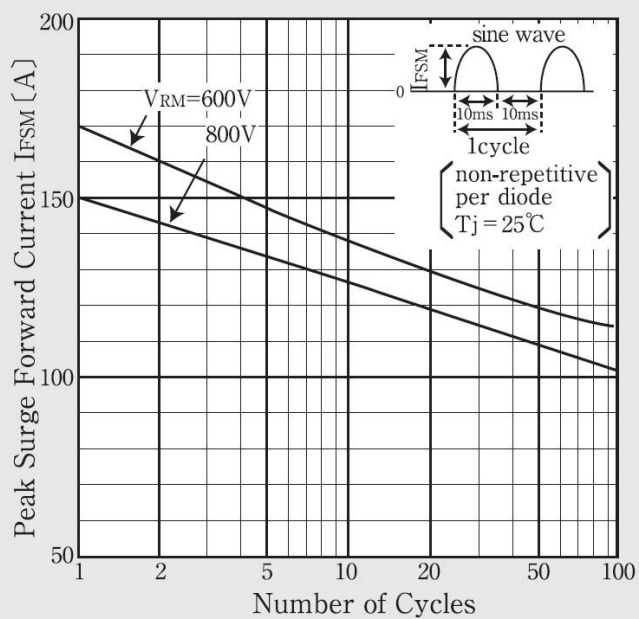
Forward Voltage



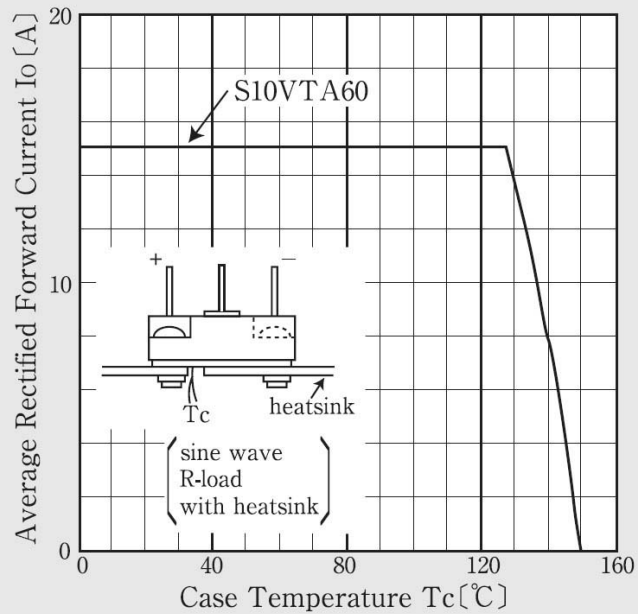
Forward Power Dissipation



Peak Surge Forward Current Capability

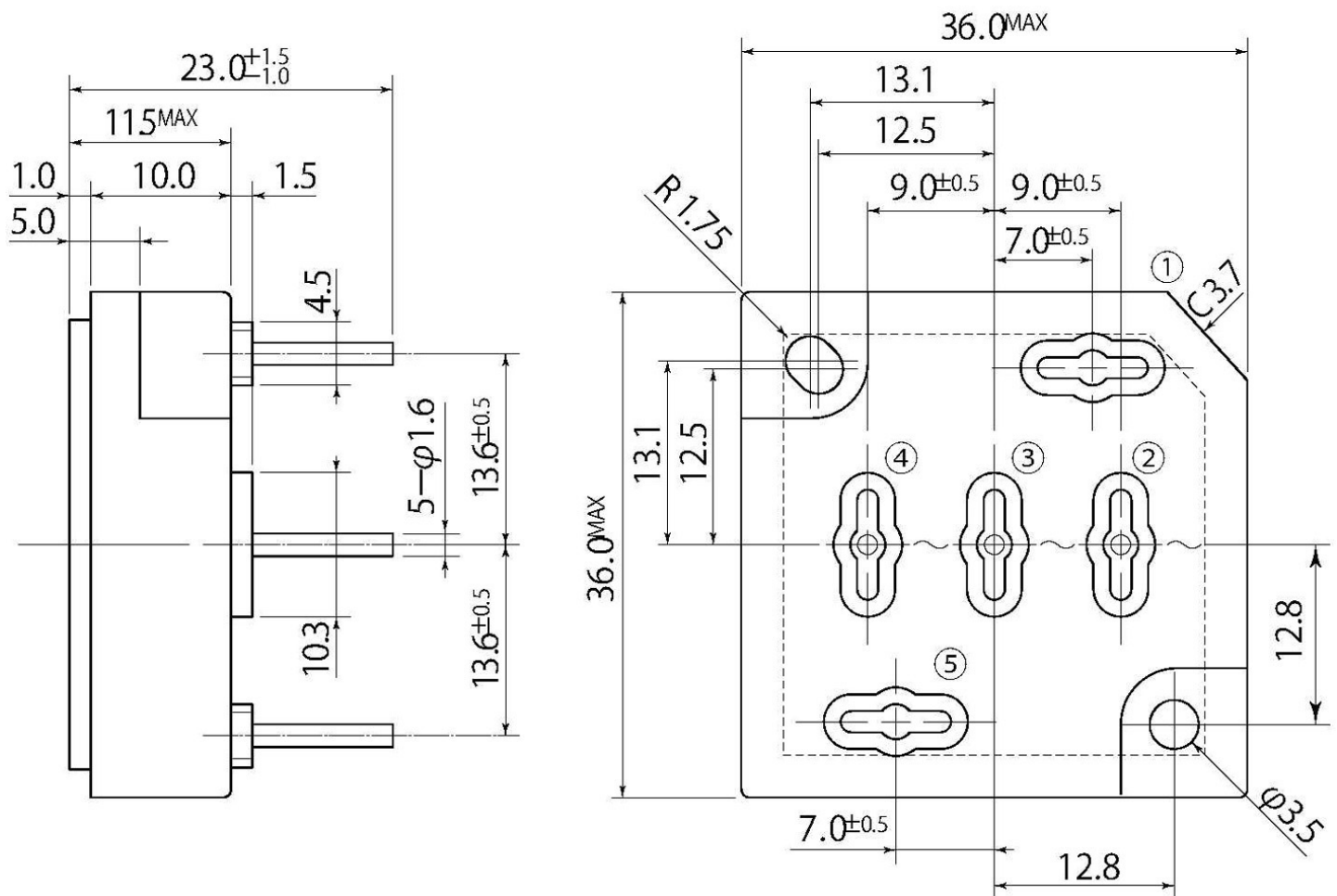


Derating Curve



E14

JEDEC Code	–
JEITA Code	–
House Name	SVTA



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