

S30V80V

General Rectifying Diodes 800V, 30A

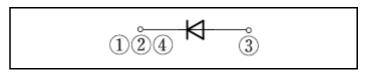
Feature

- High Voltage
- · Available for automotive use
- 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		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V_{RRM}		800	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink Tc=131°C	30	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	450	А
Surge forward current	I _{FSM1}	tp=1ms, Tj=25°C, Non-repetitive	1423	Α
Current squared time	l ² t	1ms≦tp<10ms, Rating of per diode	1012.5	A ² s
Mounting torque	TOR	(Recommended torque:0.5N·m)	0.8	N∙m

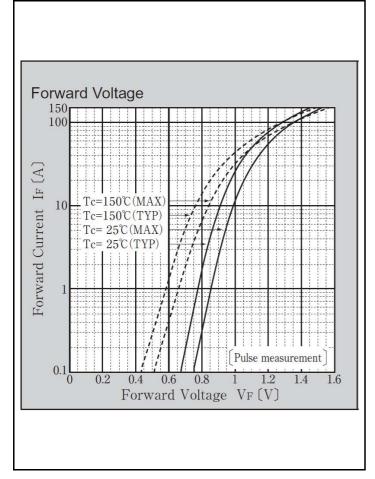
^{* :} See the original Specifications

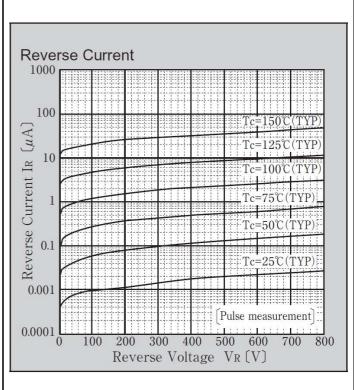
Electrical Characteristics (unless otherwise specified : Tc=25°C)

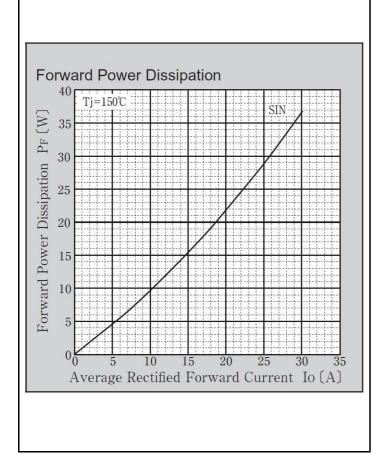
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=30A, Pulse measurement			1.1	V
Reverse current	I _R	VR=800V, Pulse measurement			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.5	°C/W

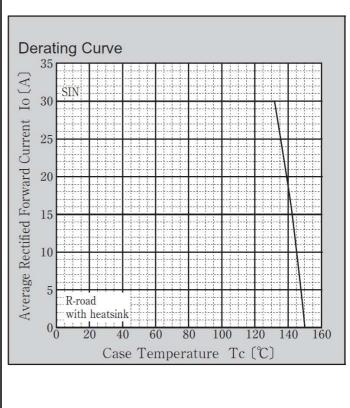
^{* :}See the original Specifications

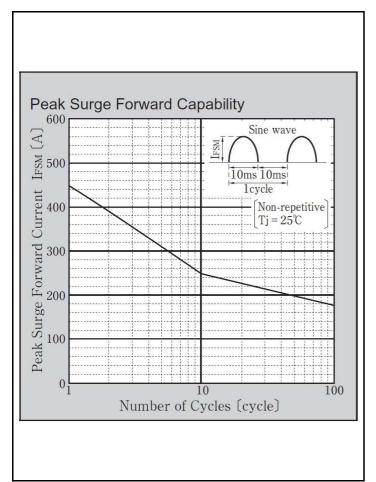
CHARACTERISTIC DIAGRAMS

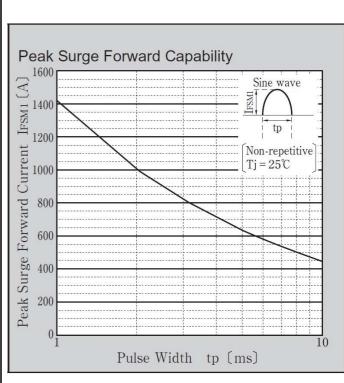


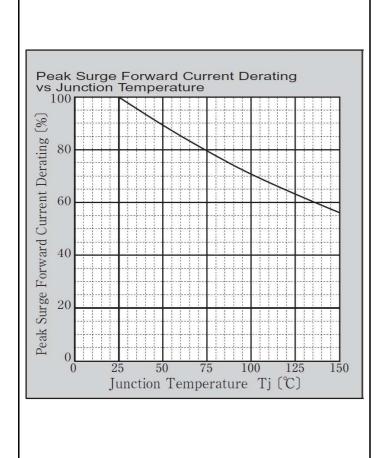


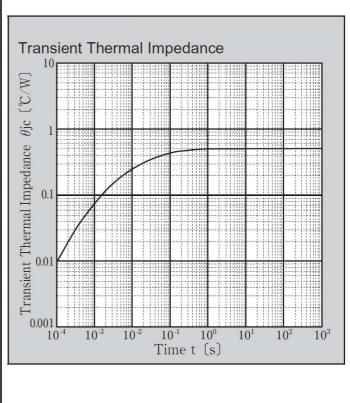








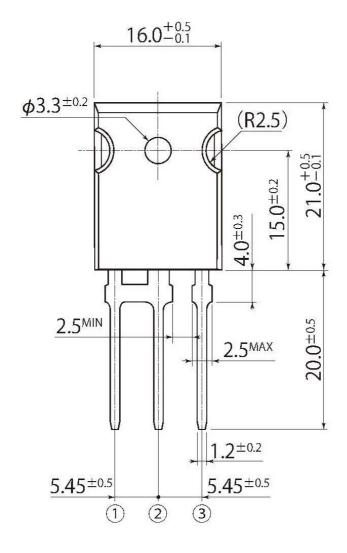


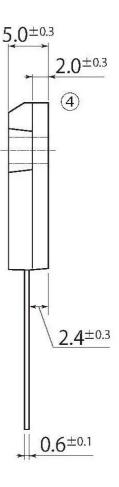


unit:mm

K6

JEDEC Code	TO-247AD	
JEITA Code	_	
House Name	MTO-3PV	





Notes

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