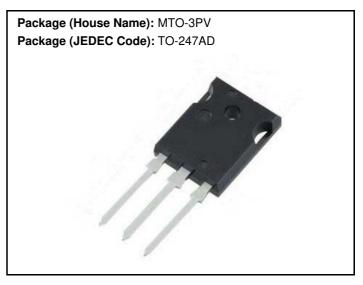
S90T15V

Schottky Barrier Diodes 150V, 90A

Feature

- High Voltage
- High Recovery Speed
- Low I_R
- · 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}		150	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tc=122°C *	90	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C *	1400	А
Mounting torque	TOR	(Recommended torque:0.5N·m)	0.8	N∙m

* : See the original Specifications

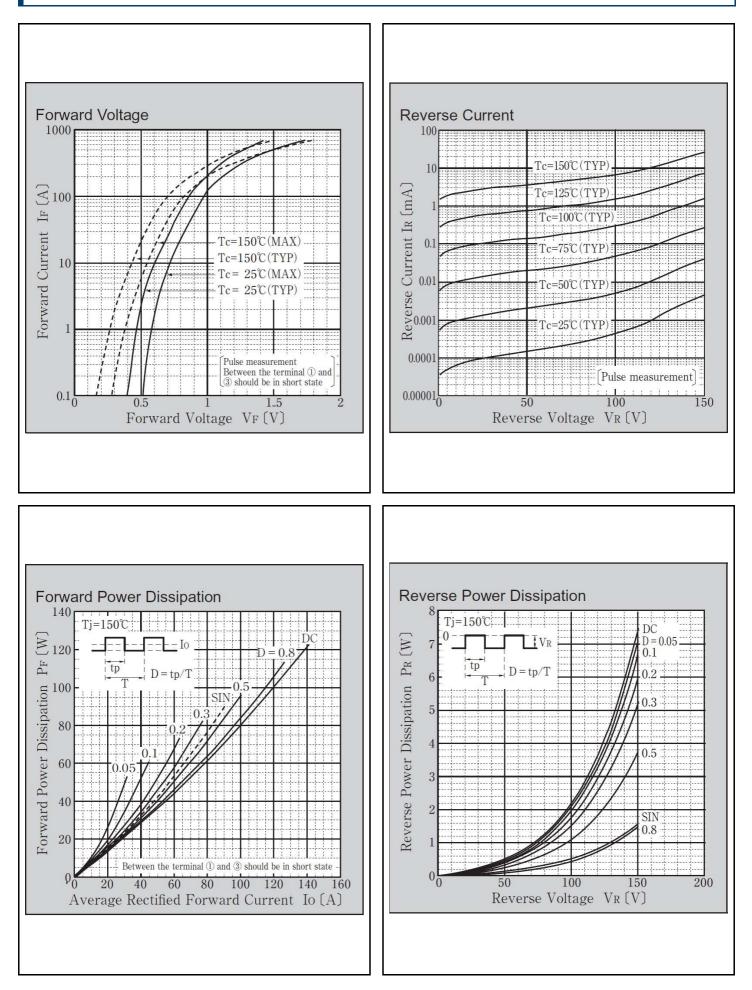
Electrical Characteristics (unless otherwise specified : Tc=25°C)

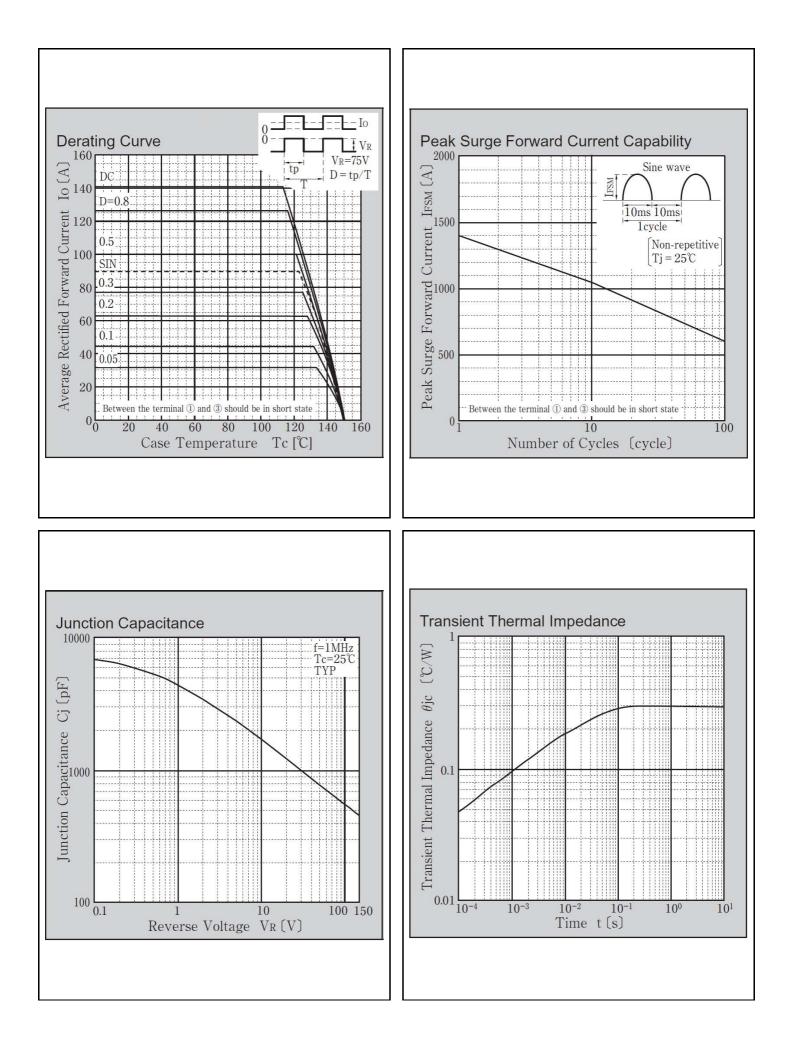
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	onit
Forward voltage	V _F	IF=90A, Pulse measurement *			0.95	V
Reverse current	I _R	VR=150V, Pulse measurement			0.35	mA
Total capacitance	Ct	f=1MHz, VR=10V		1690		pF
Thermal resistance	Rth(j-c)	Junction to case			0.3	°C/W

* : See the original Specifications

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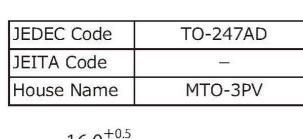
CHARACTERISTIC DIAGRAMS

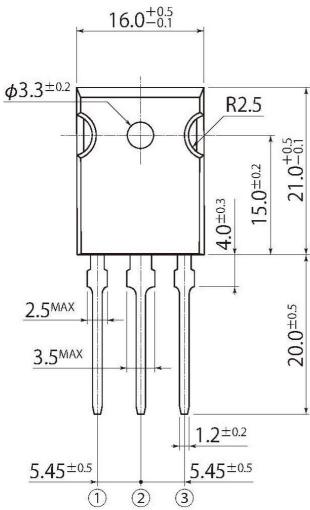


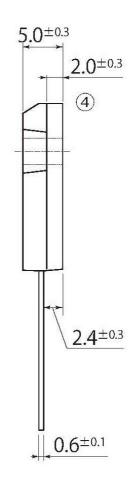


unit:mm

K7







Notes

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[Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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