

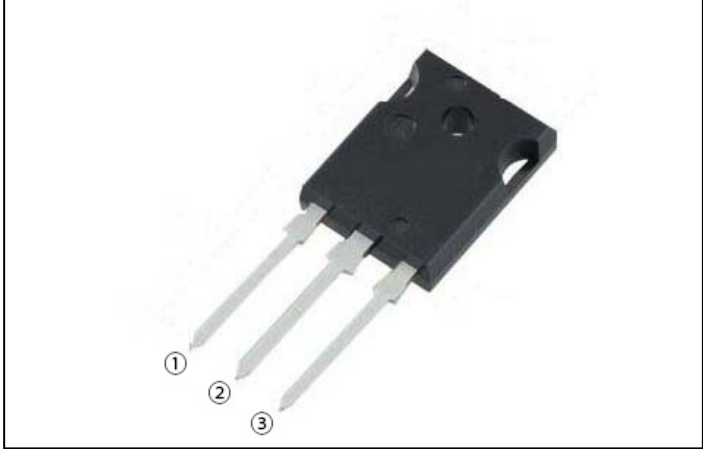
S90T15V
Schottky Barrier Diodes
150V, 90A

Feature

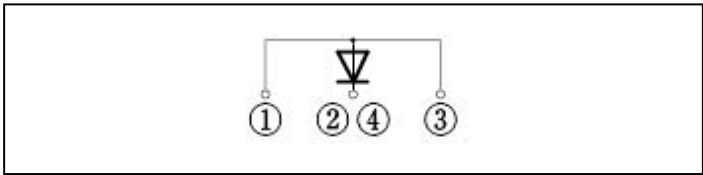
- High Voltage
- High Recovery Speed
- Low I_R
- Available for automotive use
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): MTO-3PV
Package (JEDEC Code): TO-247AD



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	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	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C ※	1400	A
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

※ : See the original Specifications

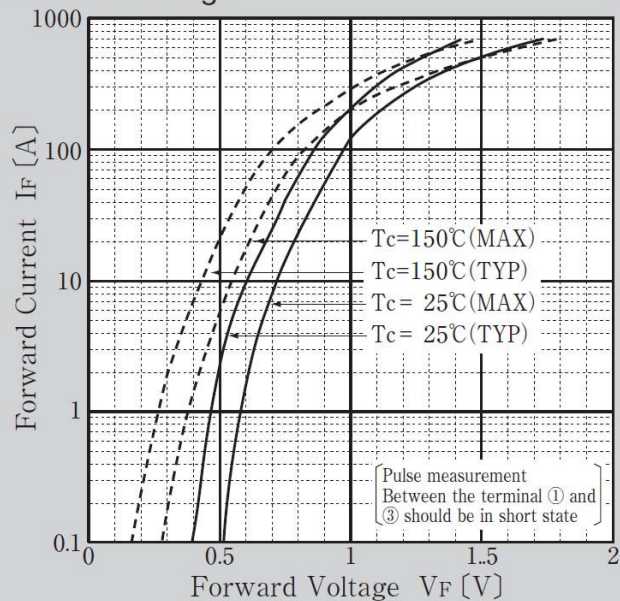
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=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

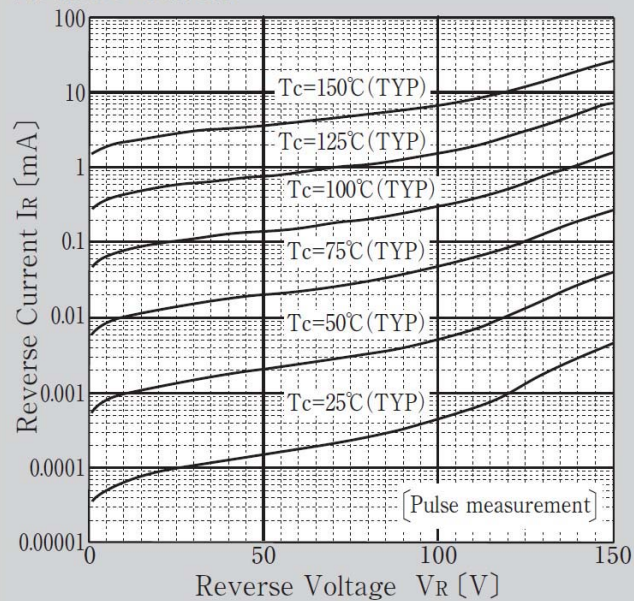
※ : See the original Specifications
Shindengen Electric Manufacturing Co., Ltd.

CHARACTERISTIC DIAGRAMS

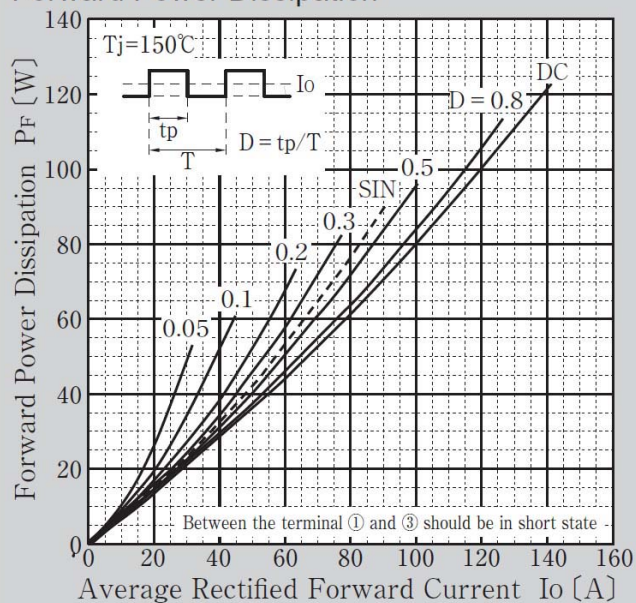
Forward Voltage



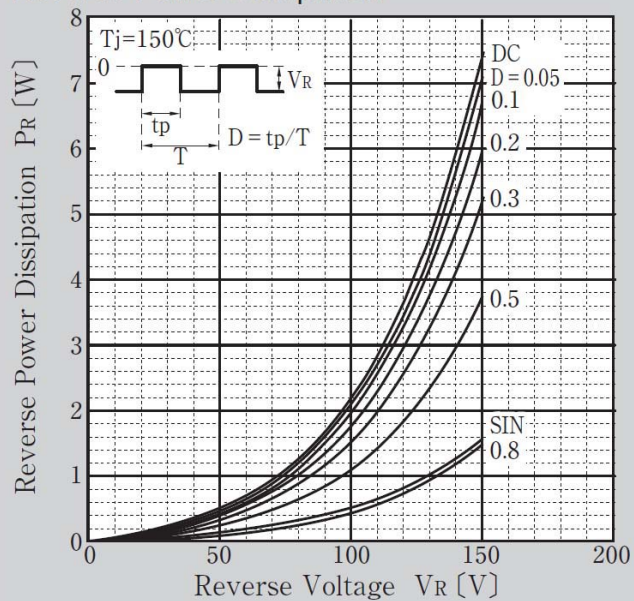
Reverse Current



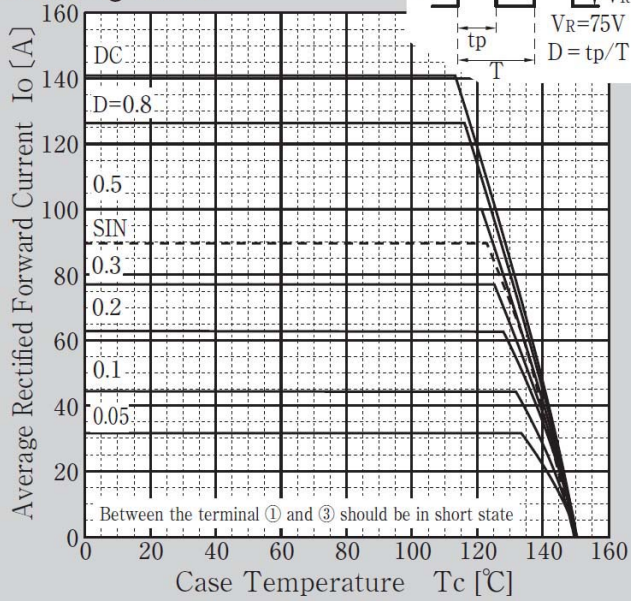
Forward Power Dissipation



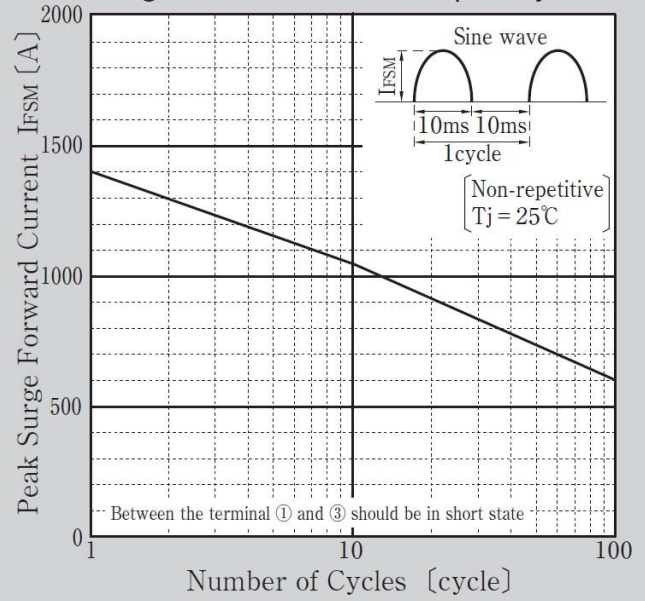
Reverse Power Dissipation



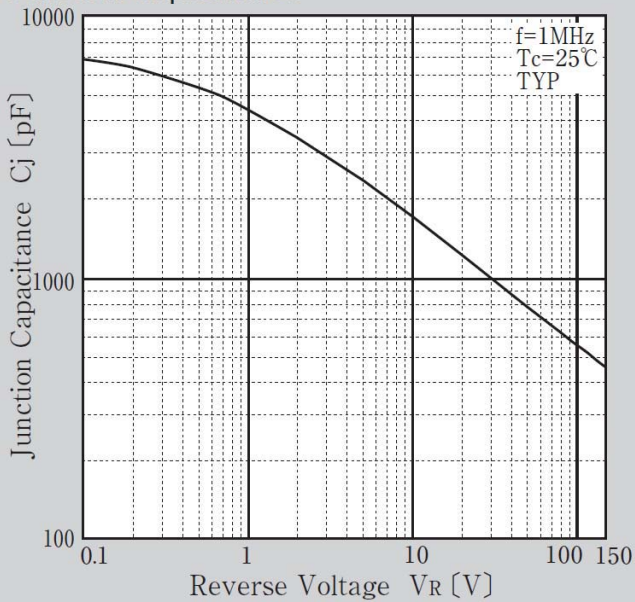
Derating Curve



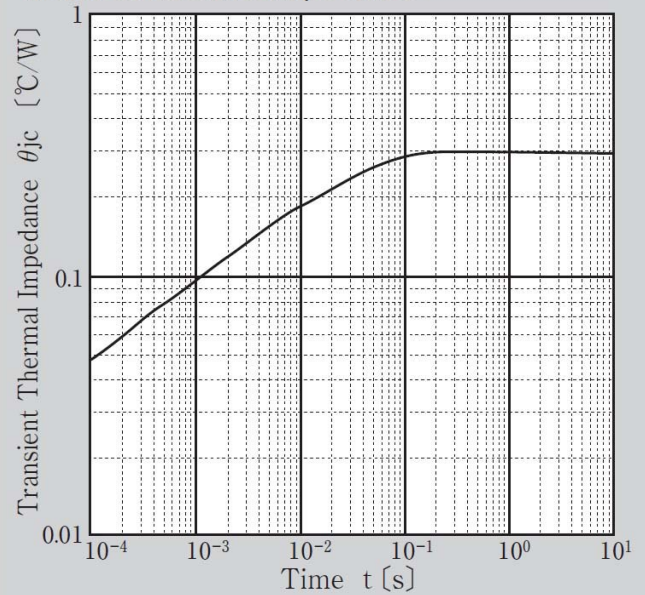
Peak Surge Forward Current Capability



Junction Capacitance



Transient Thermal Impedance

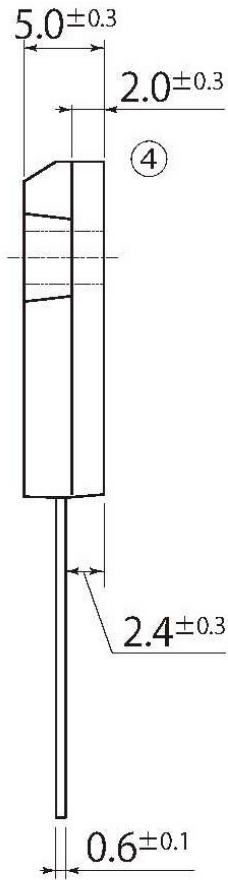
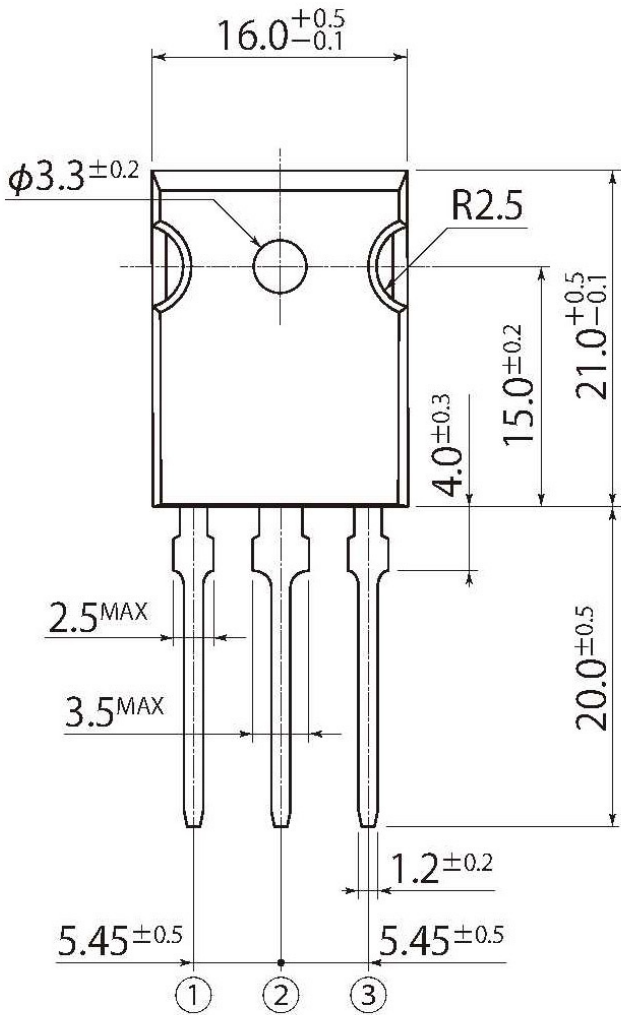


Outline Dimensions	
Outline Dimensions	

unit:mm

K7

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



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