

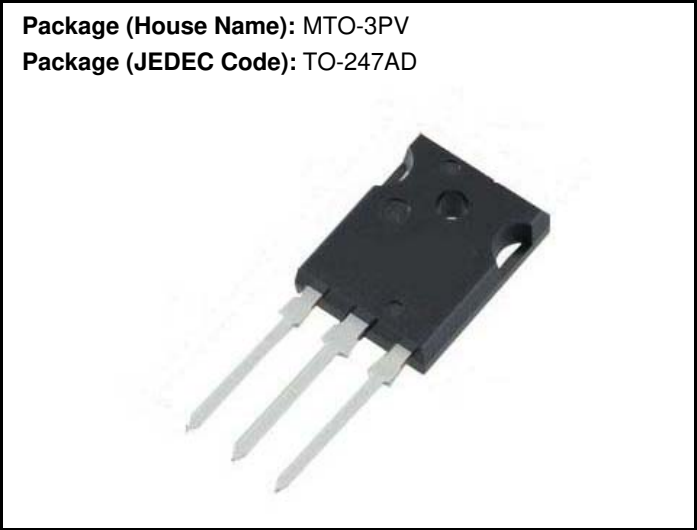
S40T15V
Schottky Barrier Diodes
150V, 40A

Feature

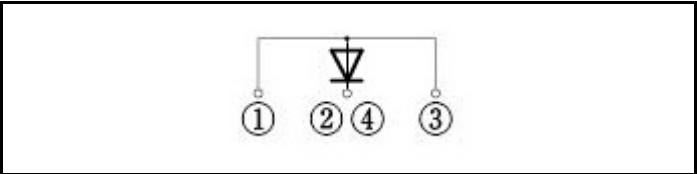
- High Voltage
- High Recovery Speed
- Low I_R
- Available for automotive use
- Pb free terminal
- RoHS:Yes

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 temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	VRRM		150	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Tc=131°C	40	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	700	A
Surge forward current	IFSM1	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	1300	A
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

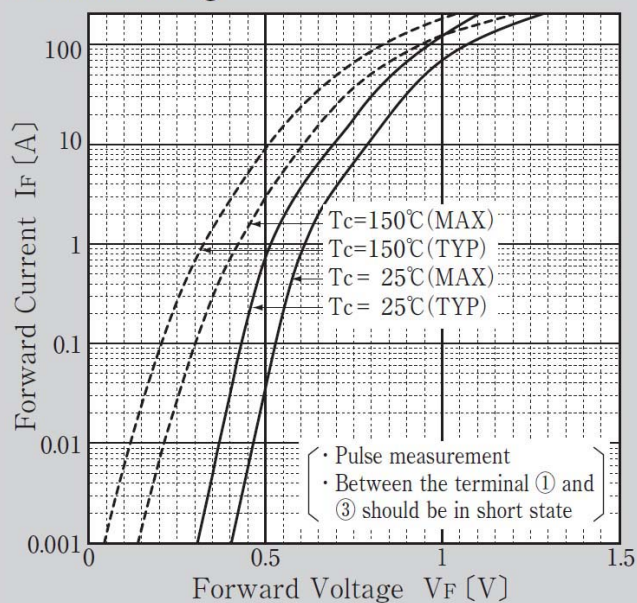
※ :See the original Specifications

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

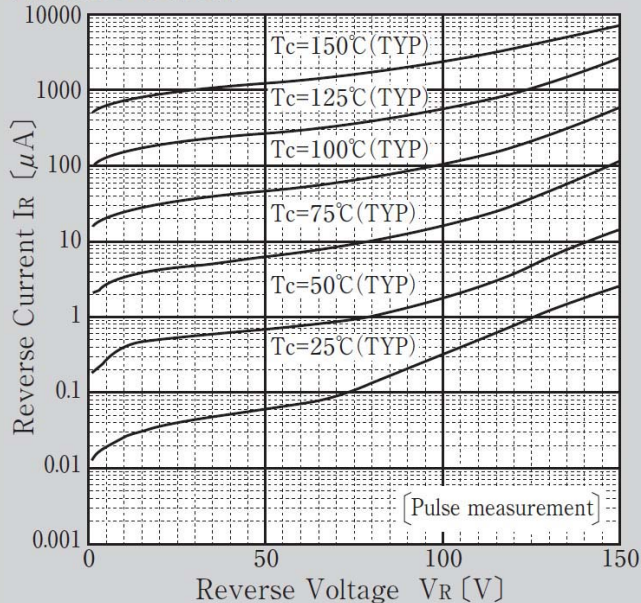
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=40A, Pulse measurement			0.92	V
Forward voltage	V_F	IF=30A, Pulse measurement			0.88	V
Reverse current	I_R	VR=150V, Pulse measurement			0.12	mA
Total capacitance	Ct	f=1MHz, VR=10V		595		pF
Thermal resistance	Rth(j-c)	Junction to case			0.5	°C/W

※ :See the original Specifications

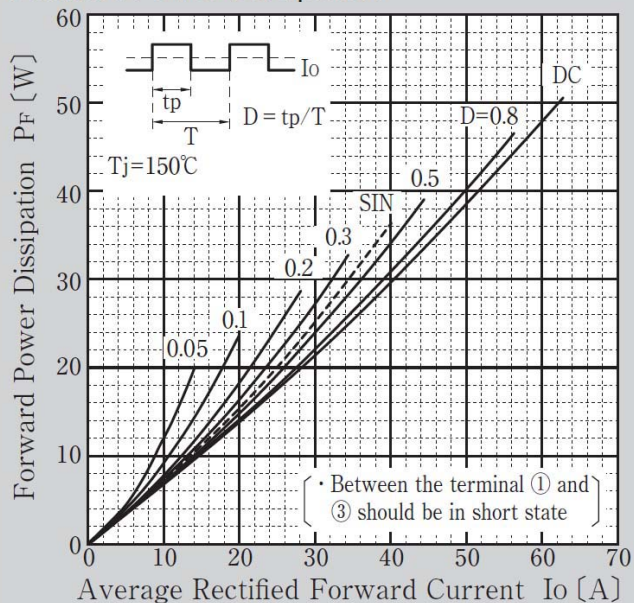
Forward Voltage



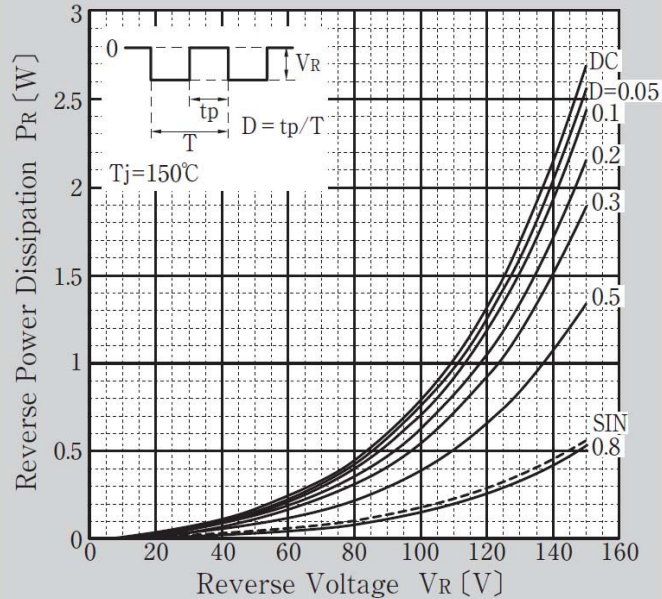
Reverse Current

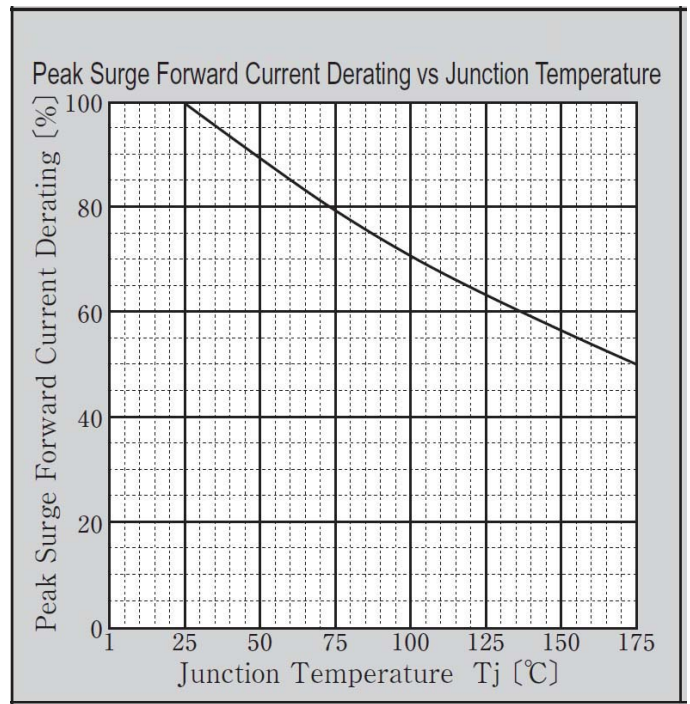
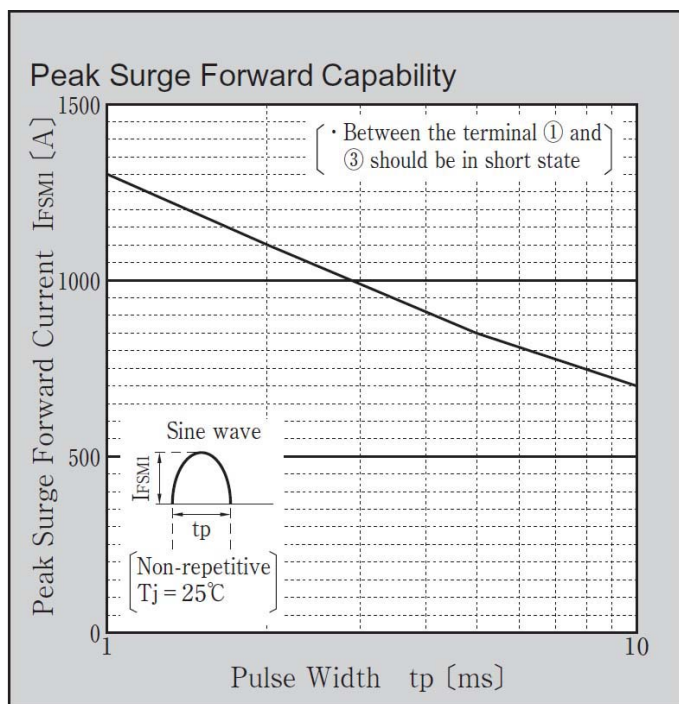
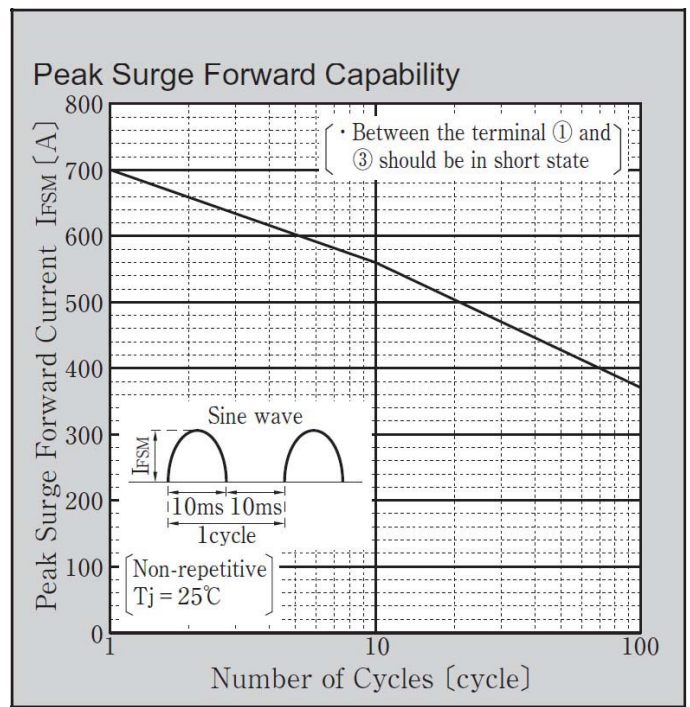
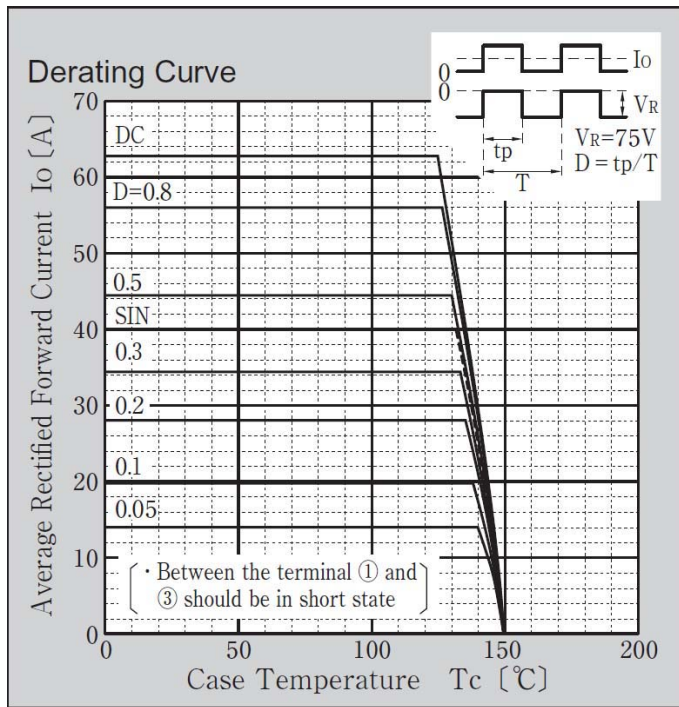


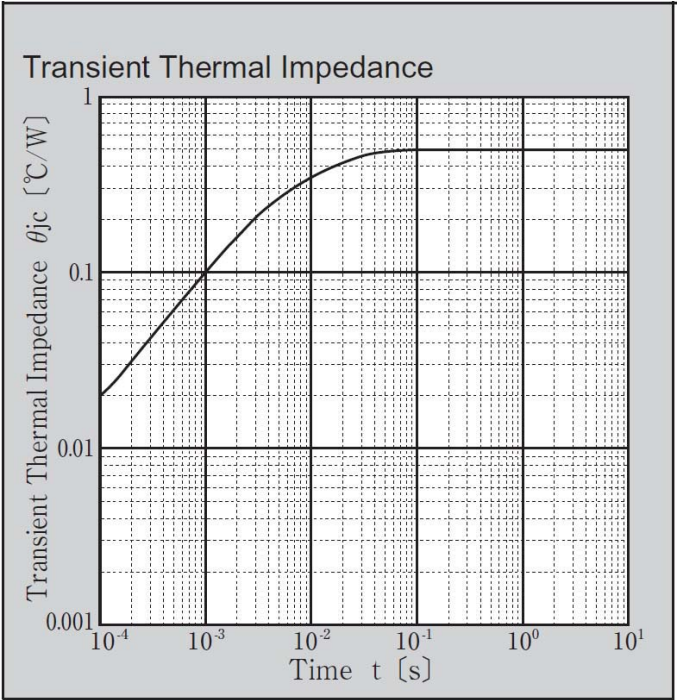
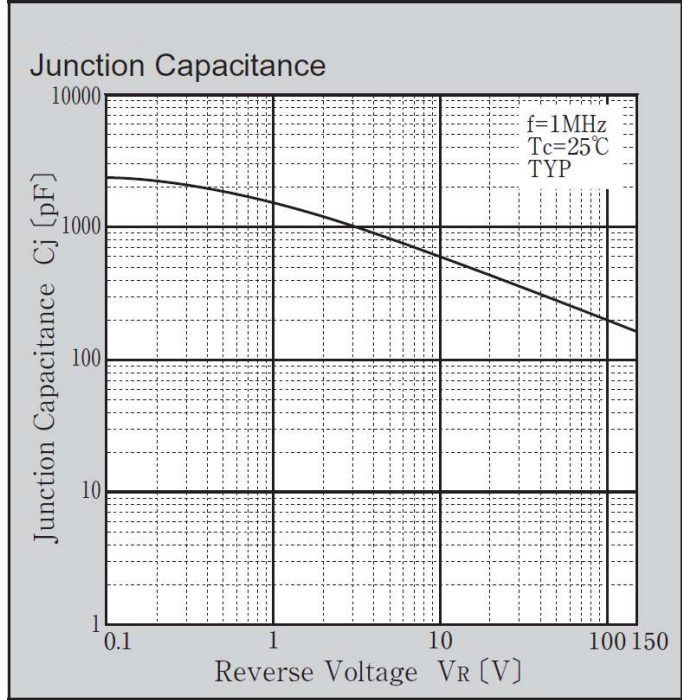
Forward Power Dissipation



Reverse Power Dissipation

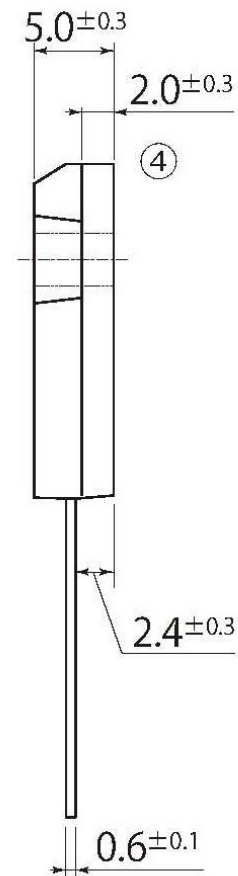
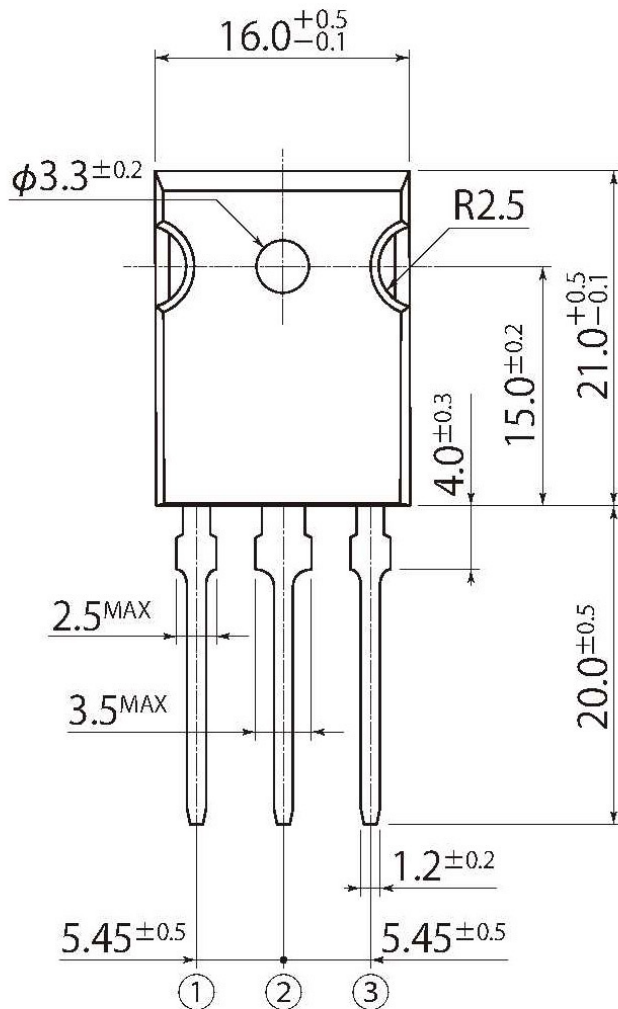






K7

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



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