

S40T15V

Schottky Barrier Diodes

150V, 40A

Feature

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

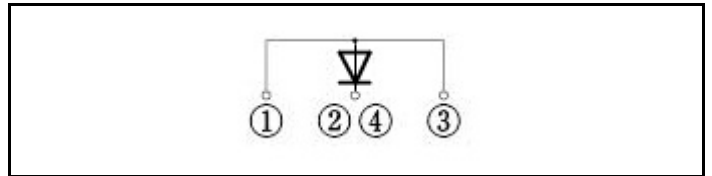
OUTLINE

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 temperature	T _{stg}		-55 to 150	°C
Junction temperature	T _j		150	°C
Repetitive peak reverse voltage	V _{RRM}		150	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, T _c =131°C	40	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1 cycle, Peak value, T _j =25°C	700	A
Surge forward current	I _{FSM1}	t _p =1ms, Sine wave, Non-repetitive, Peak value, T _j =25°C	1300	A
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

※ : See the original Specifications

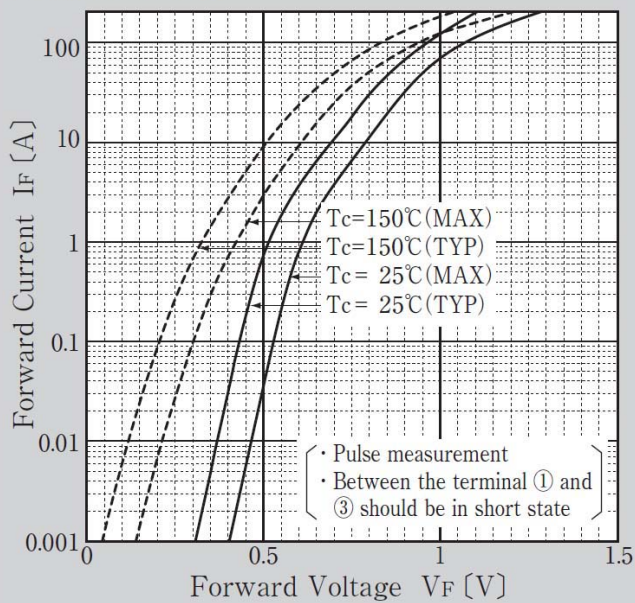
Electrical Characteristics (unless otherwise specified : Tc=25°C)

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	C _t	f=1MHz, VR=10V		595		pF
Thermal resistance	R _{th(j-c)}	Junction to case			0.5	°C/W

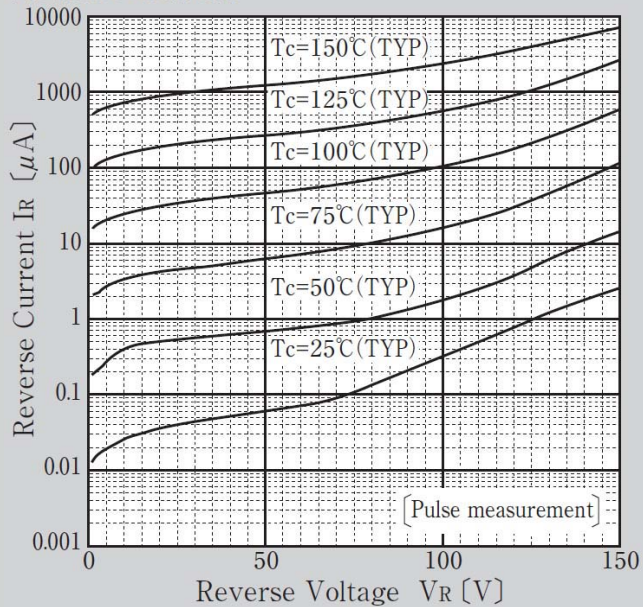
* :See the original Specifications

CHARACTERISTIC DIAGRAMS

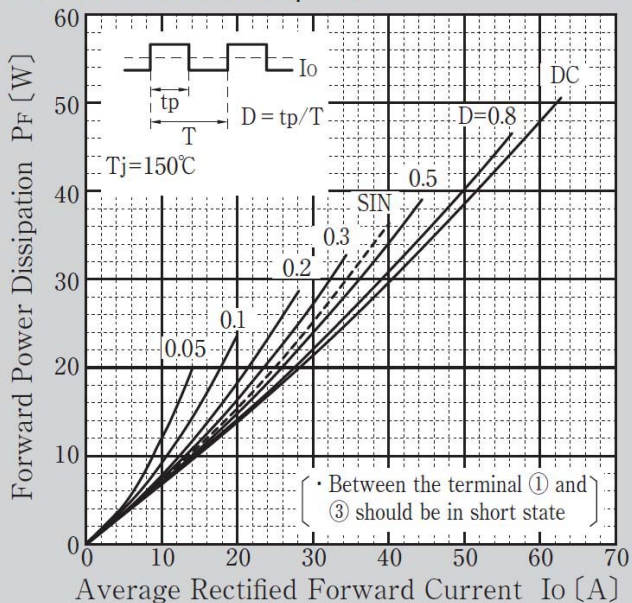
Forward Voltage



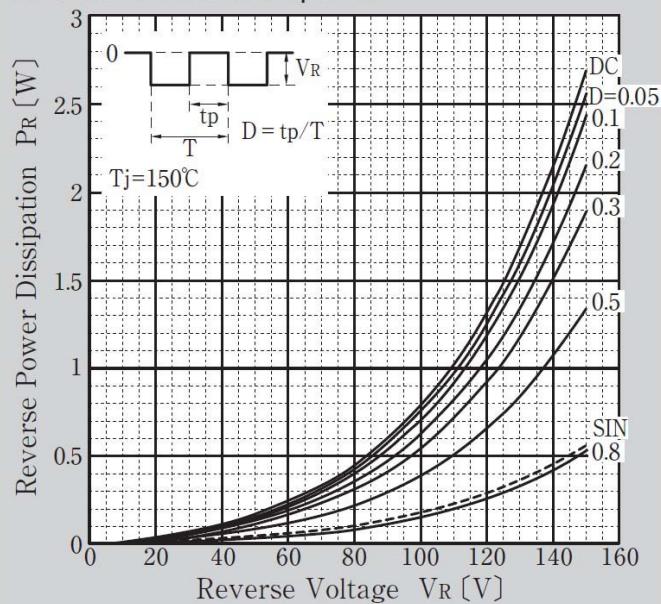
Reverse Current

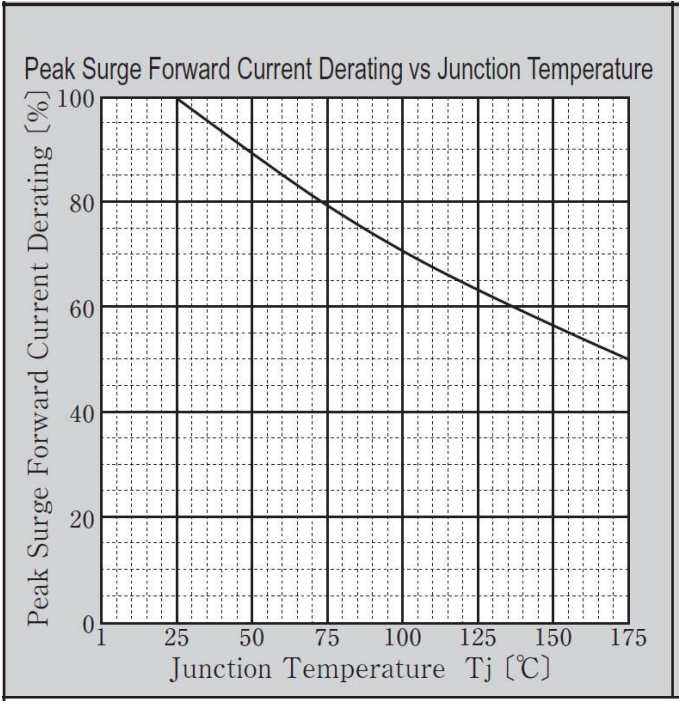
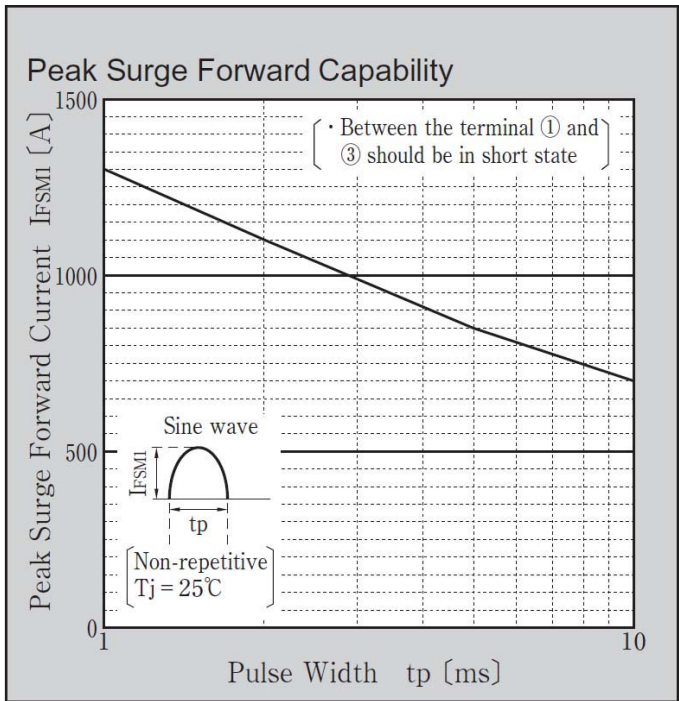
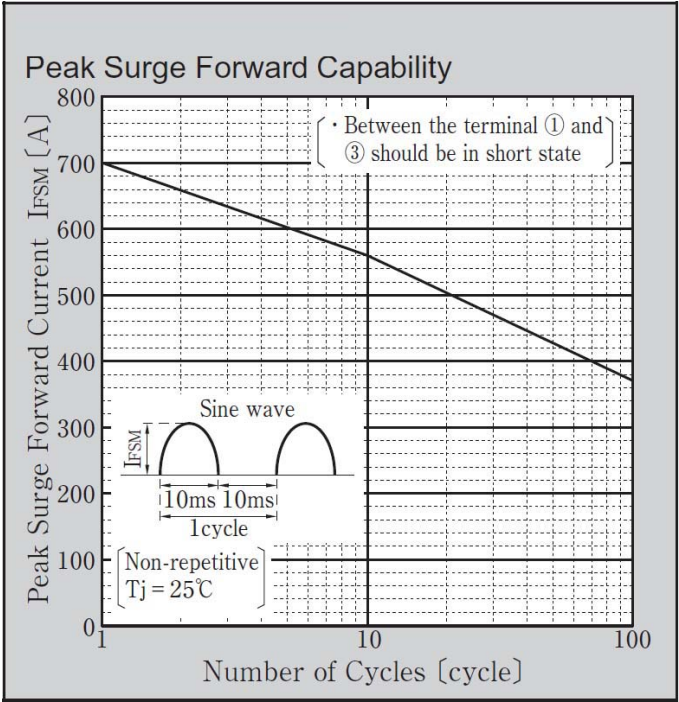
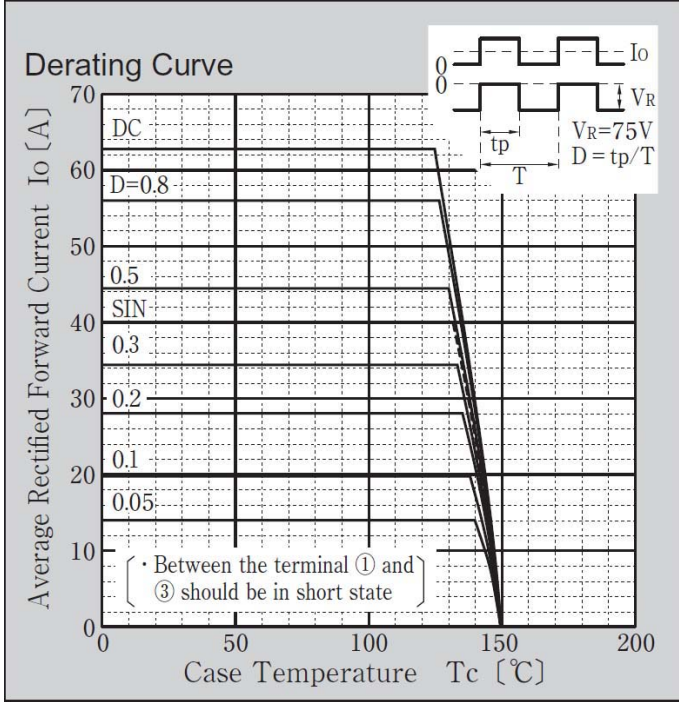


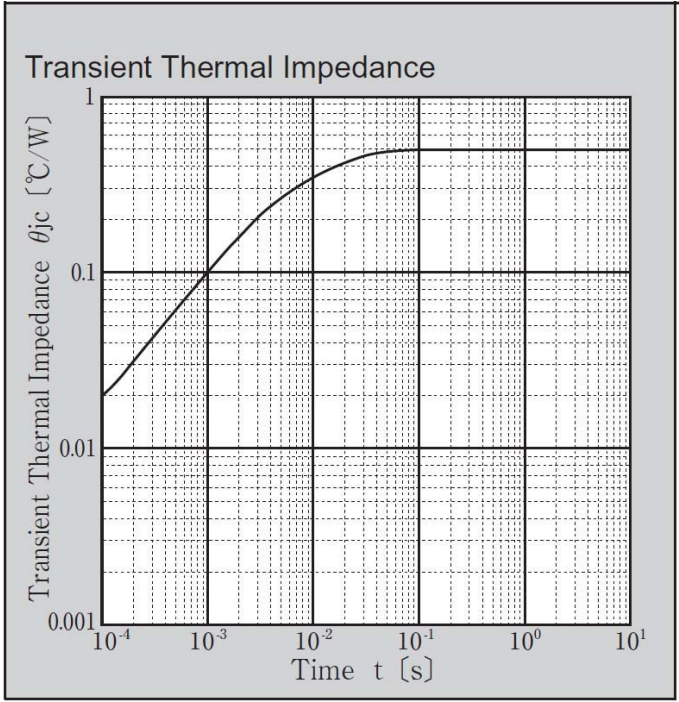
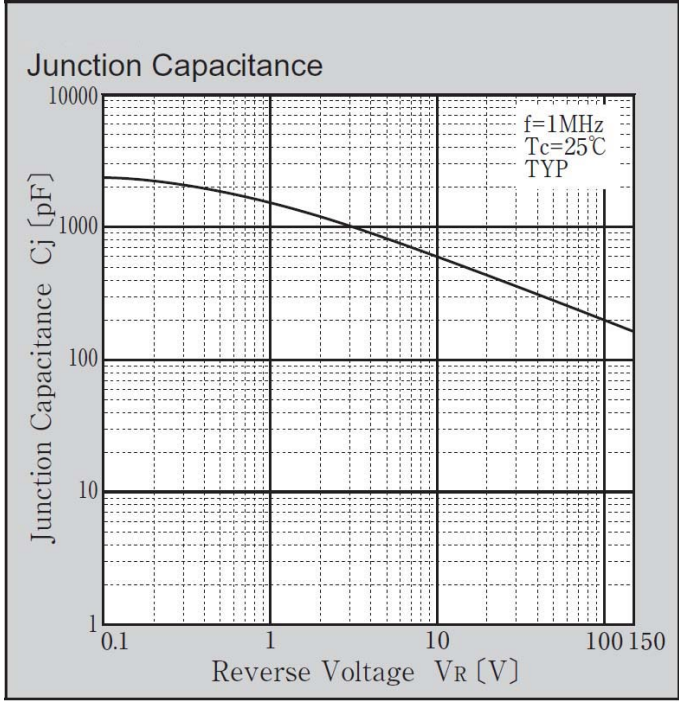
Forward Power Dissipation



Reverse Power Dissipation

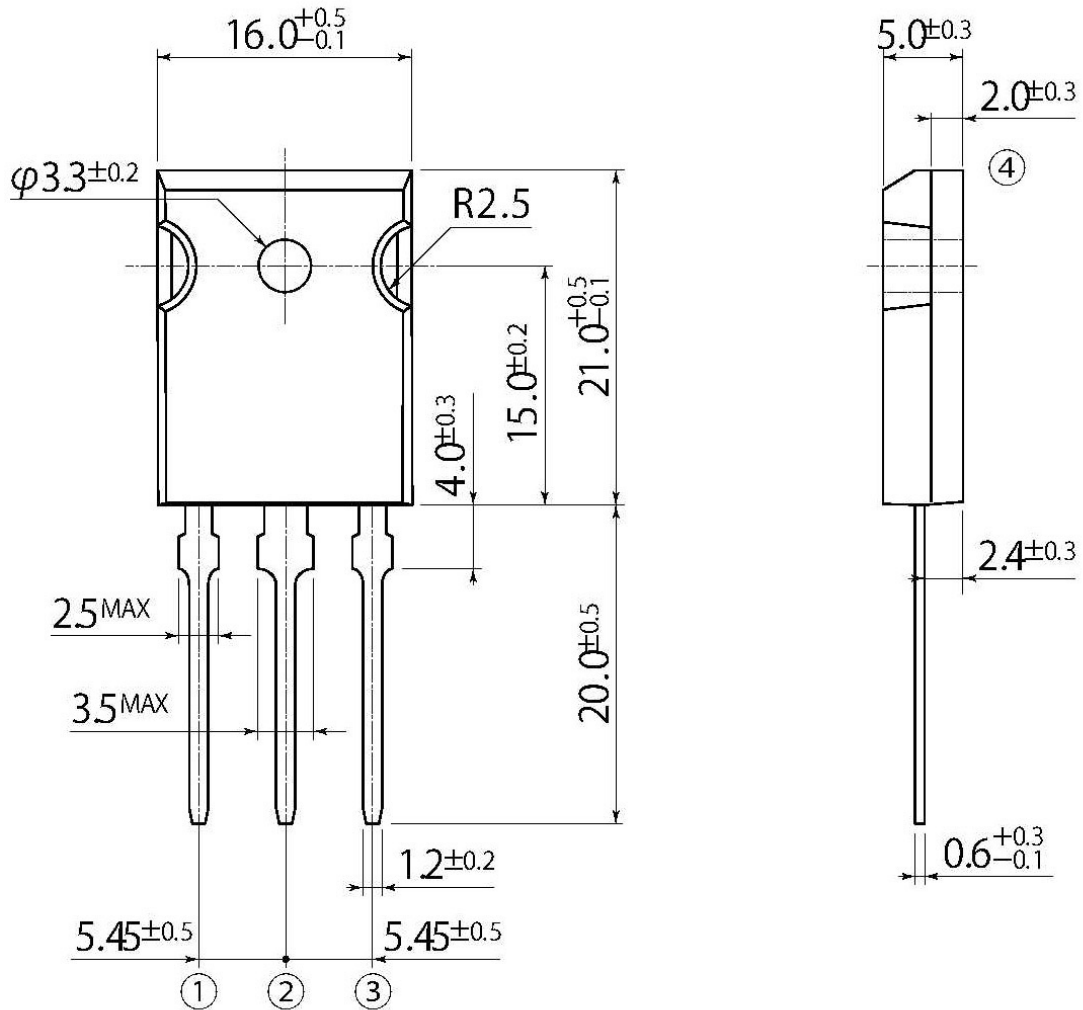






K7

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



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