

S60L120V

Fast Recovery Diodes 1200V, 60A

Feature

- High Voltage
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

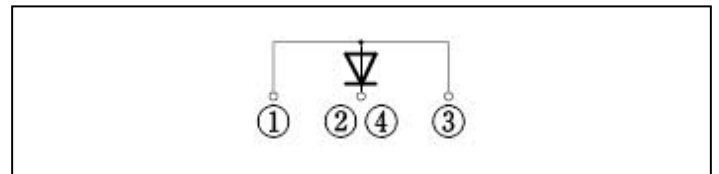
OUTLINE

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		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		1200	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, With heatsink, Tc=63°C	60	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	450	A
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	1020	A
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

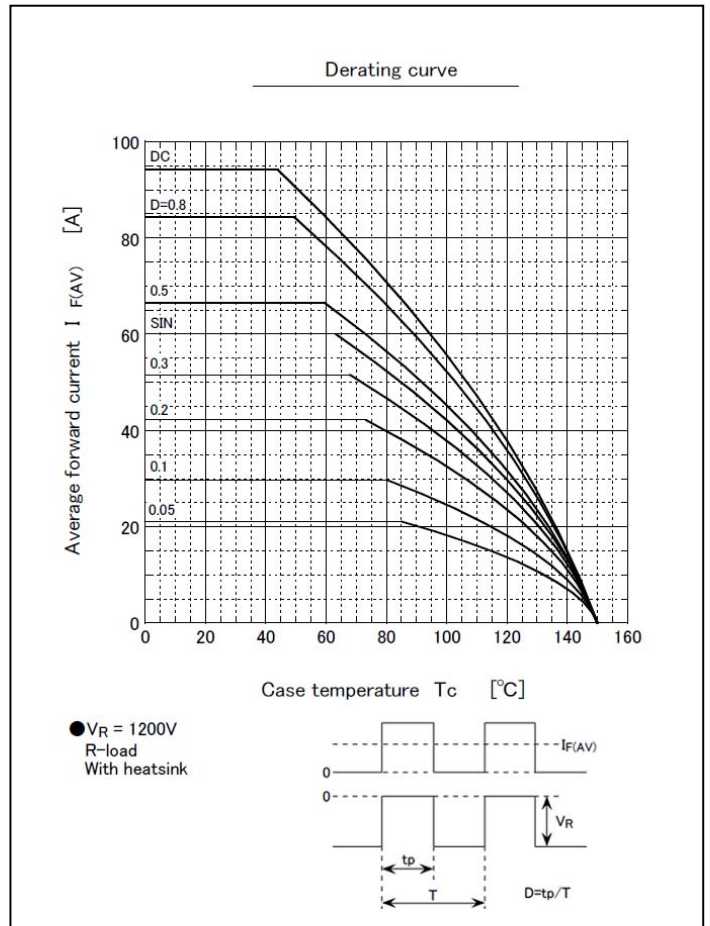
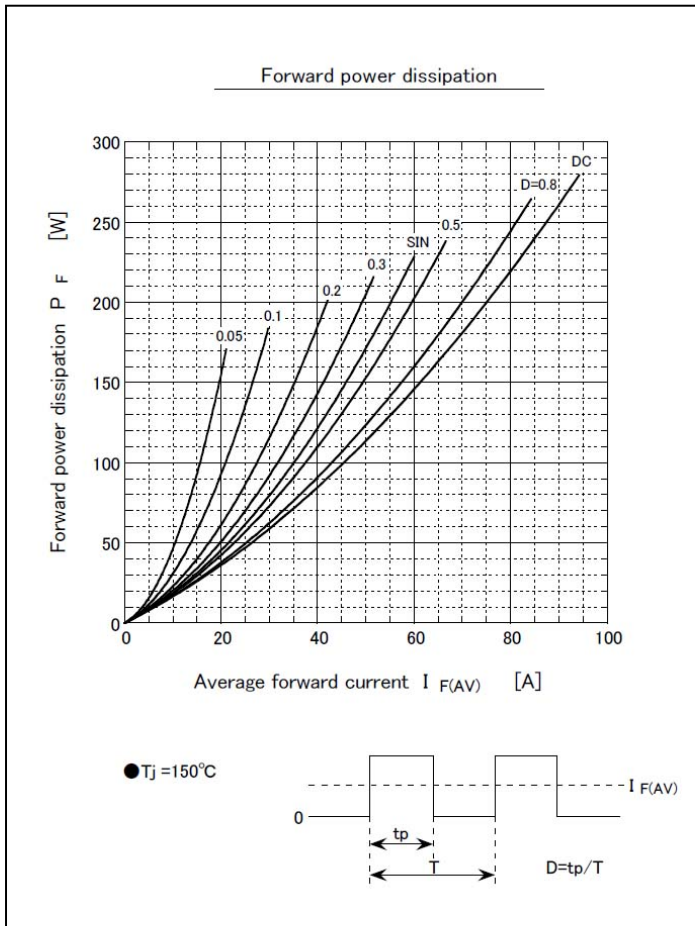
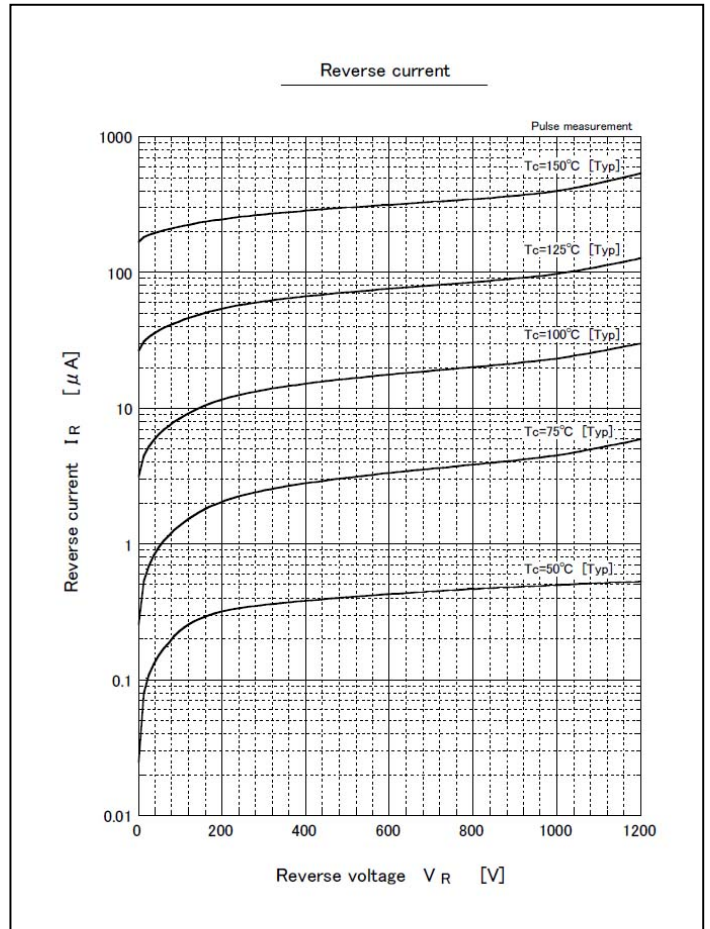
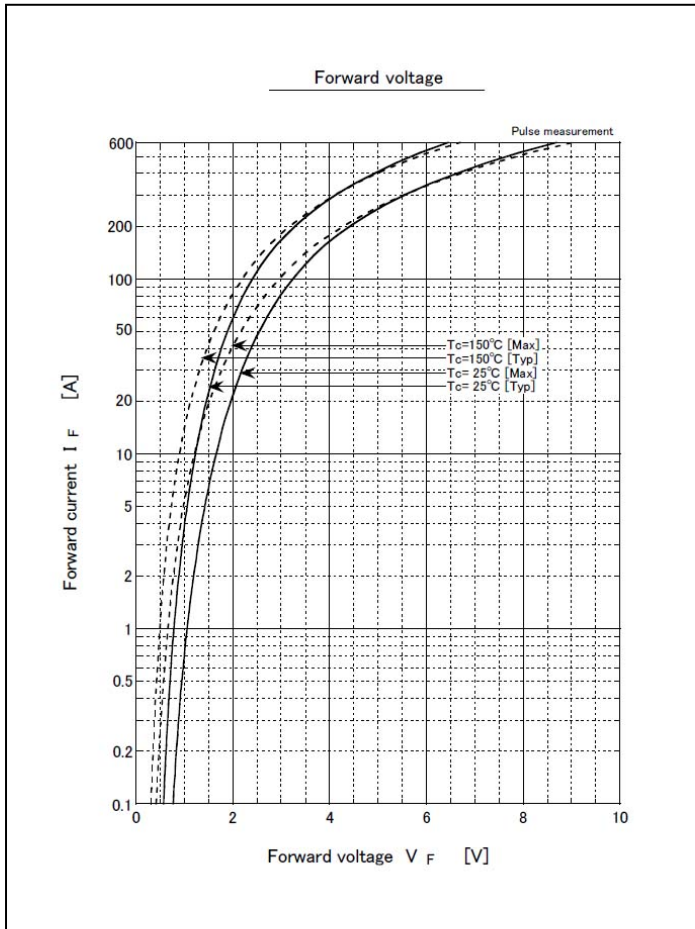
※ : See the original Specifications

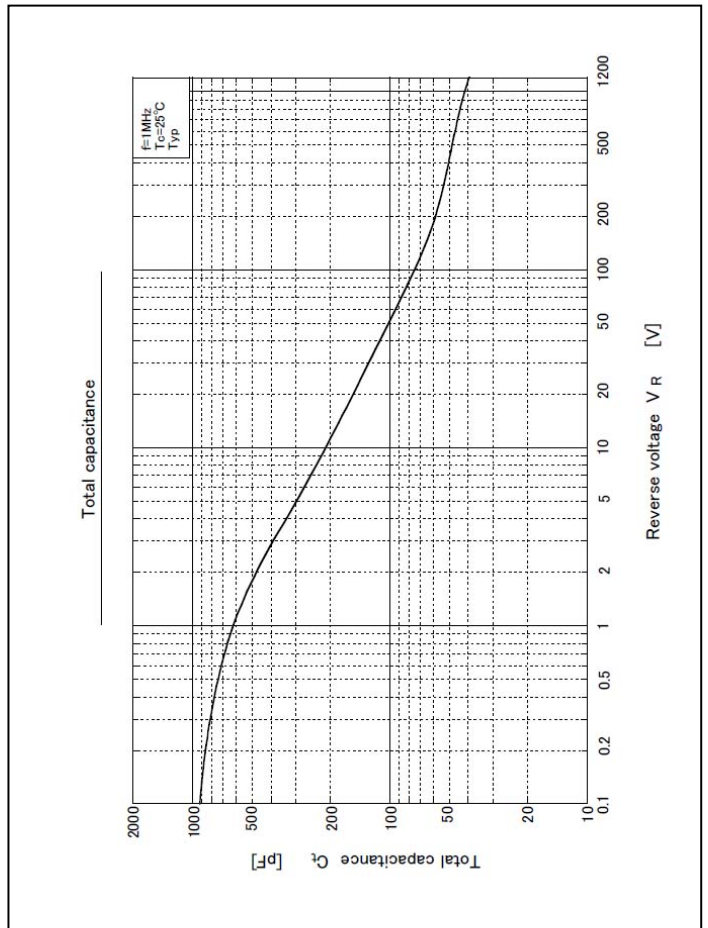
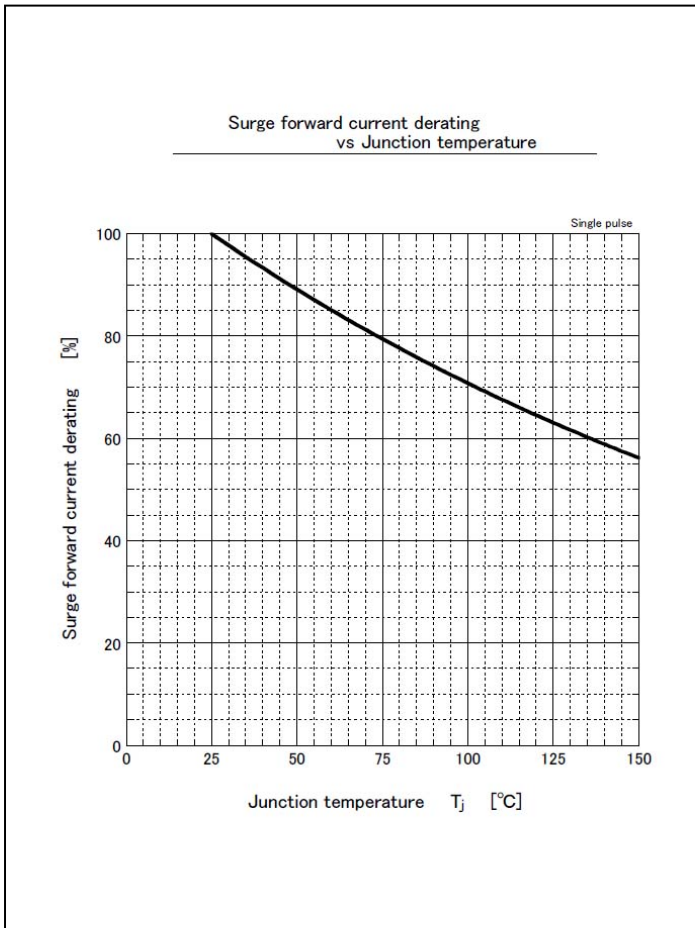
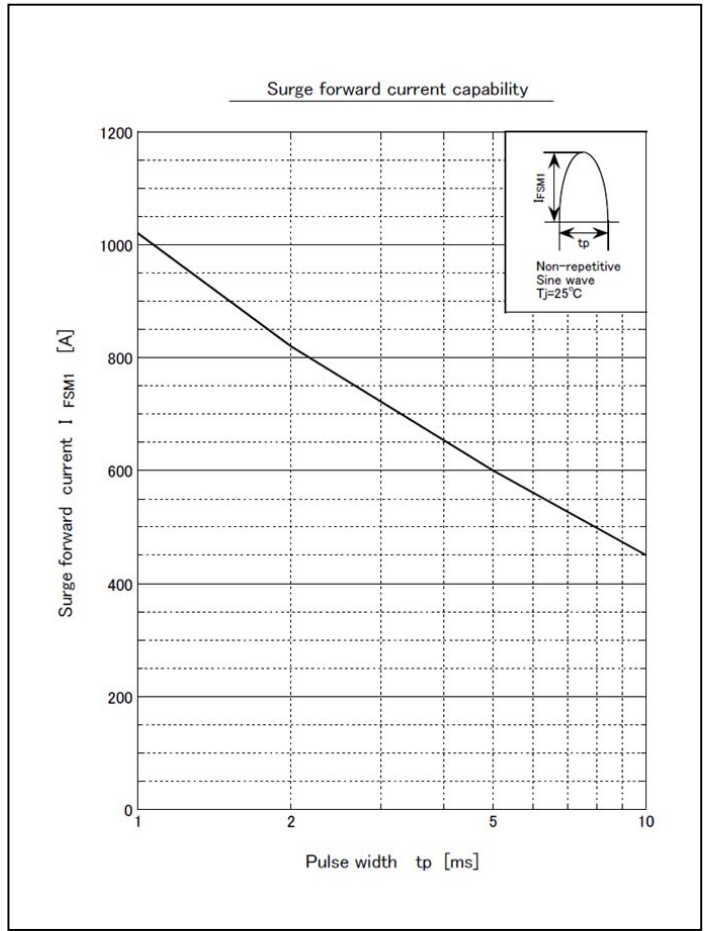
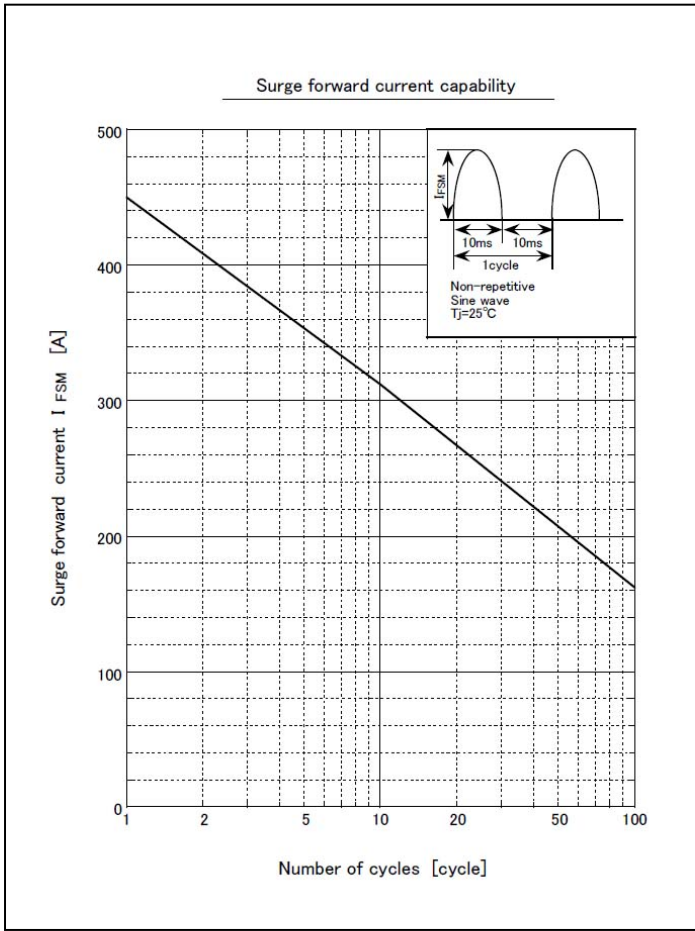
Electrical Characteristics (unless otherwise specified : Tc=25°C)

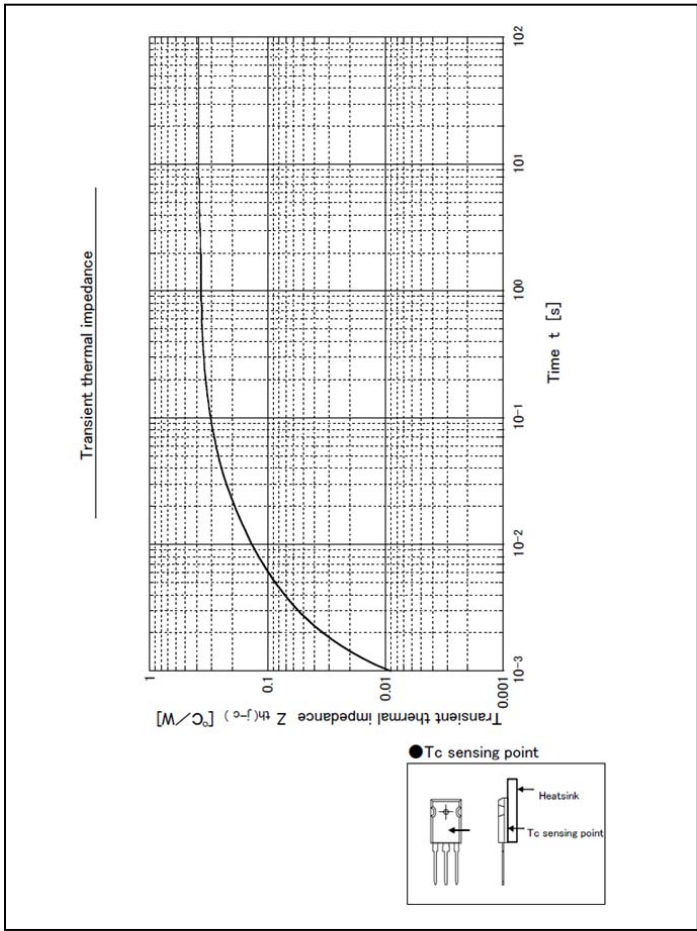
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=60A, Pulse measurement			2.7	V
Reverse current	I_R	VR=1200V, Pulse measurement			100	μ A
Reverse recovery time	trr	IF=0.5A, IR=1A, 0.25IR			300	ns
Total capacitance	Ct	f=1MHz, VR=10V		206		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.38	°C/W

※ :See the original Specifications

CHARACTERISTIC DIAGRAMS





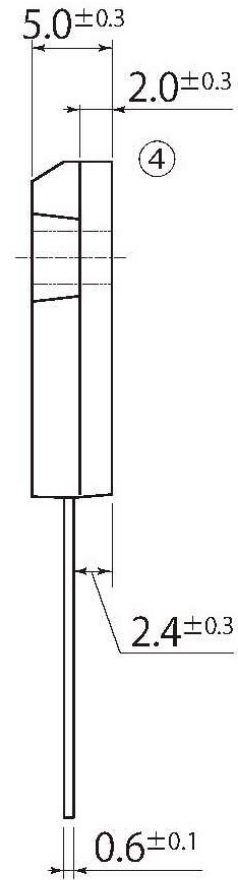
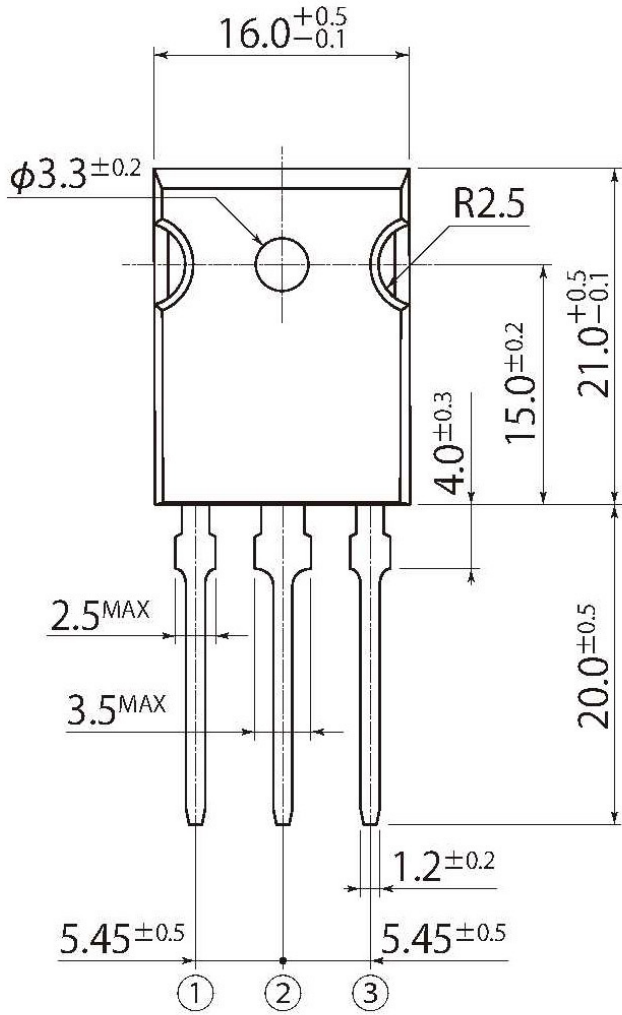


Outline Dimensions

unit:mm

K7

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



Notes

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