ShinDengen

S40HC1R5T

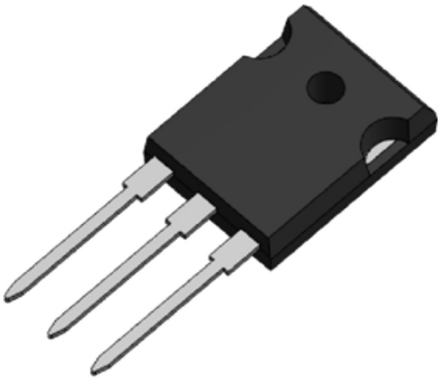
Schottky Barrier Diodes
15V, 40A

Feature

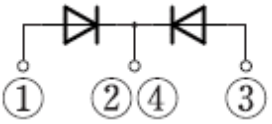
- High Recovery Speed
- Low V_F
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): MTO-3PT
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 125	°C
Junction temperature	Tj		125	°C
Repetitive peak reverse voltage	V_{RRM}		15	V
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=111°C	40	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	450	A
Surge forward current	I_{FSM1}	tp=1ms, Sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	980	A
Mounting torque	TOR	(Recommended torque：0.5N･m)	0.8	N･m

※ ：See the original Specifications

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

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=20A, Pulse measurement, per diode		0.36	0.41	V
Reverse current	I_R	VR=15V, Pulse measurement, per diode			10	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		960		pF
Thermal resistance	Rth(j-c)	Junction to case			0.6	°C/W

※ :See the original Specifications

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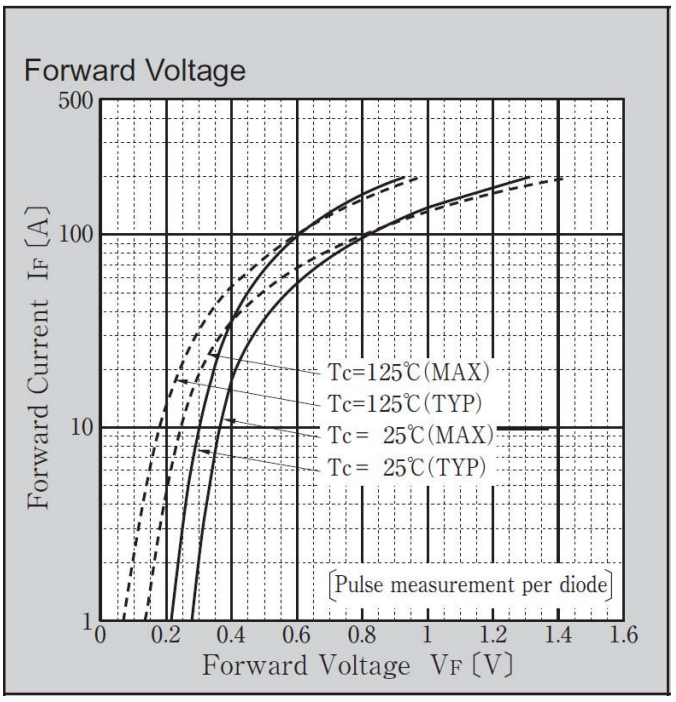
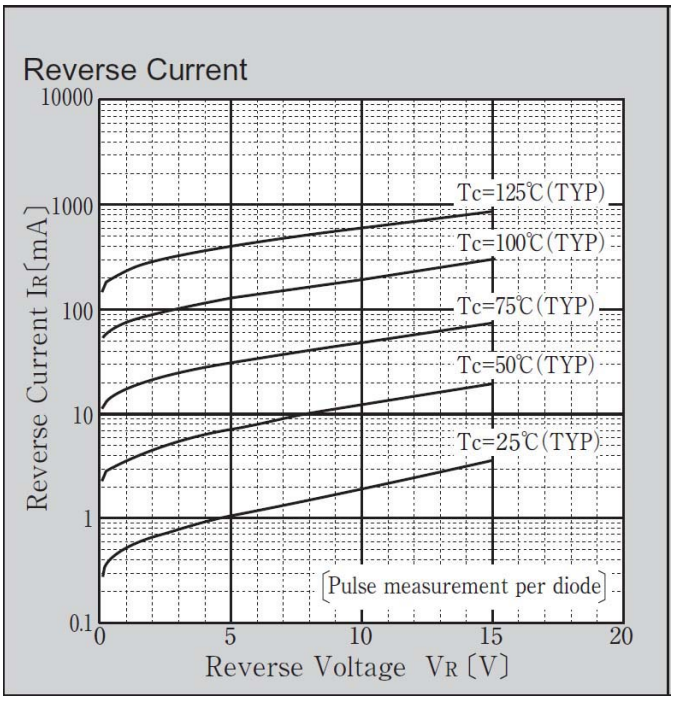
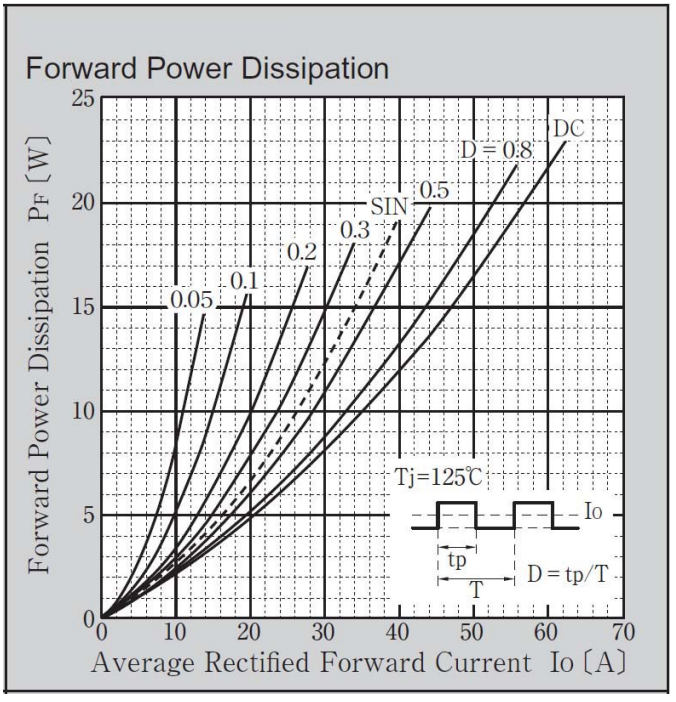
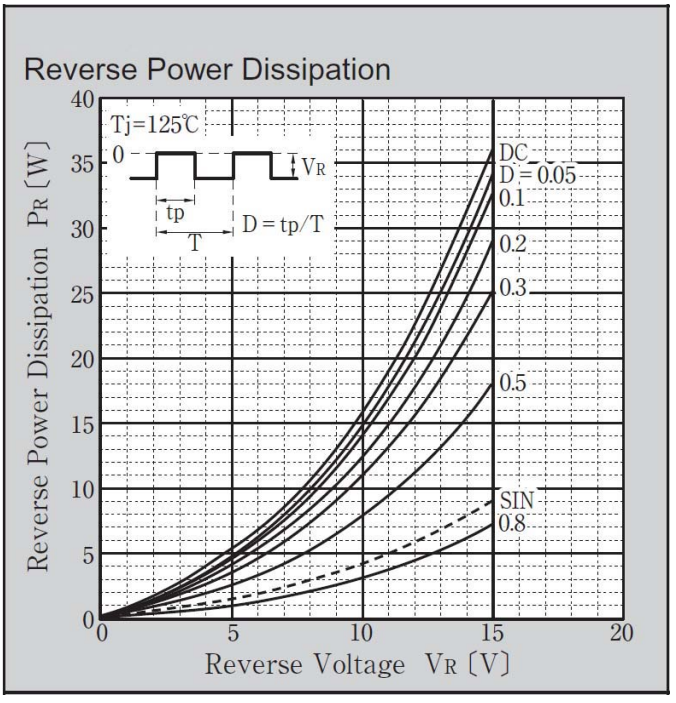
CHARACTERISTIC DIAGRAMS









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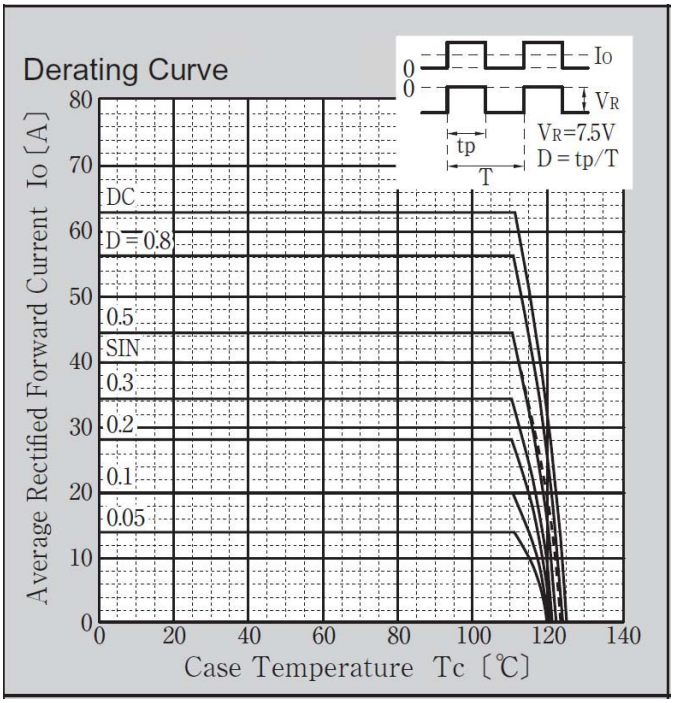

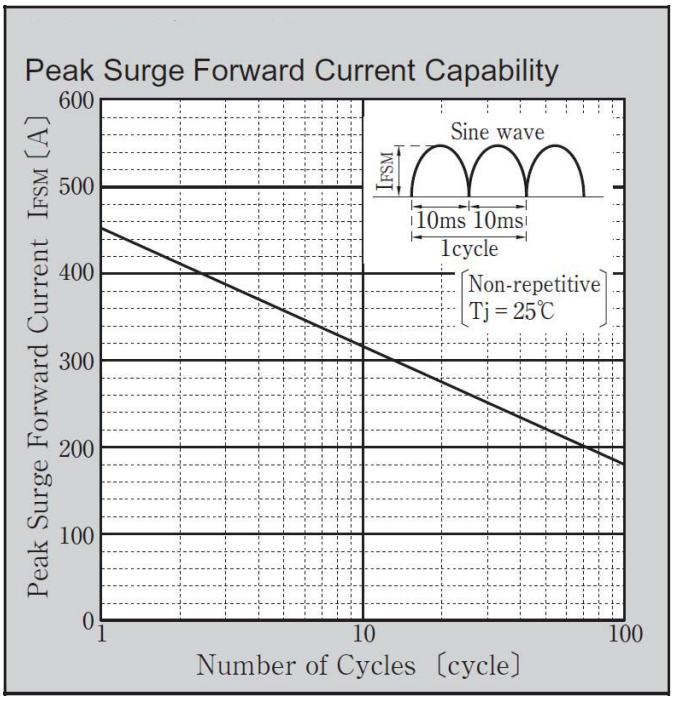

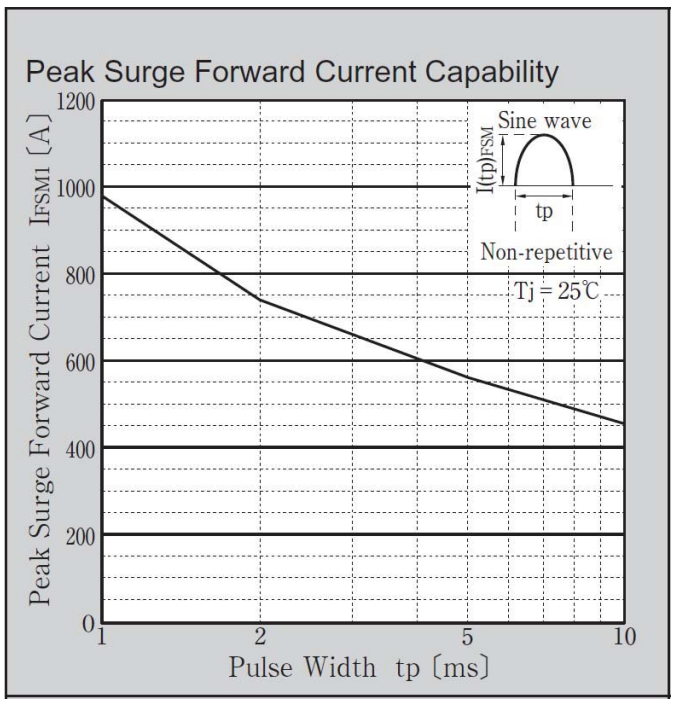

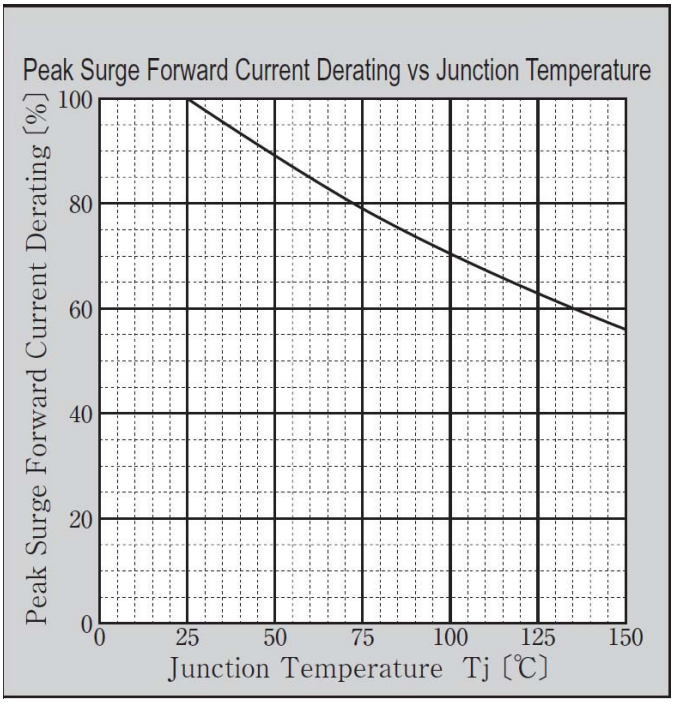

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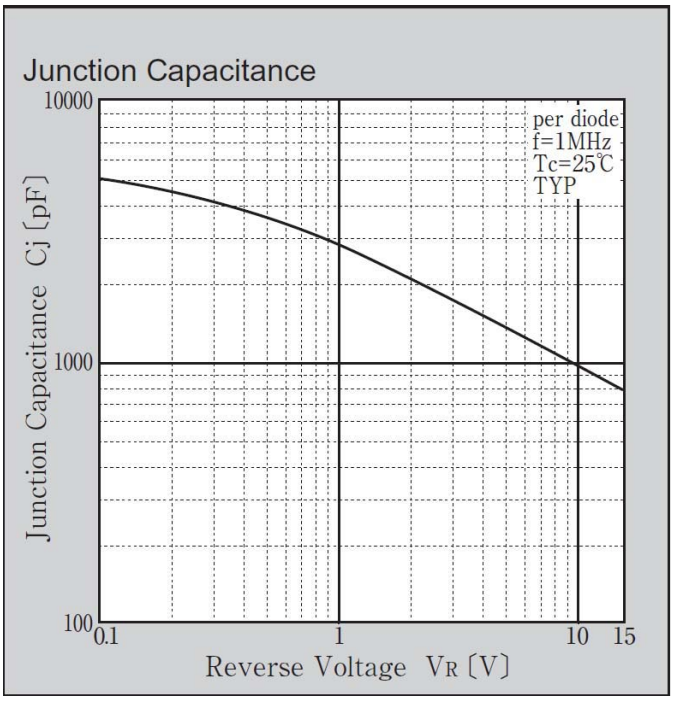

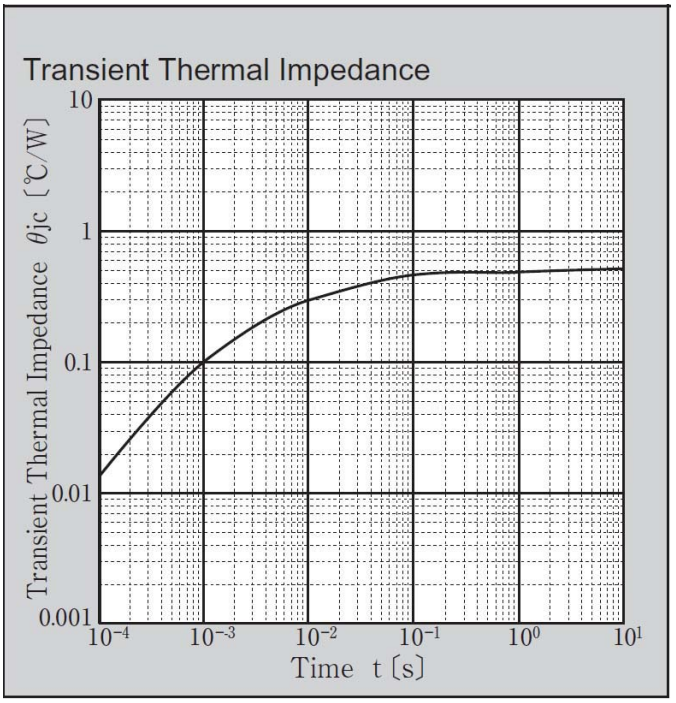

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Outline Dimensions

unit:mm

K5

JEDEC Code	TO-247AD
JEITA Code	–
House Name	MTO-3PT(3pin)

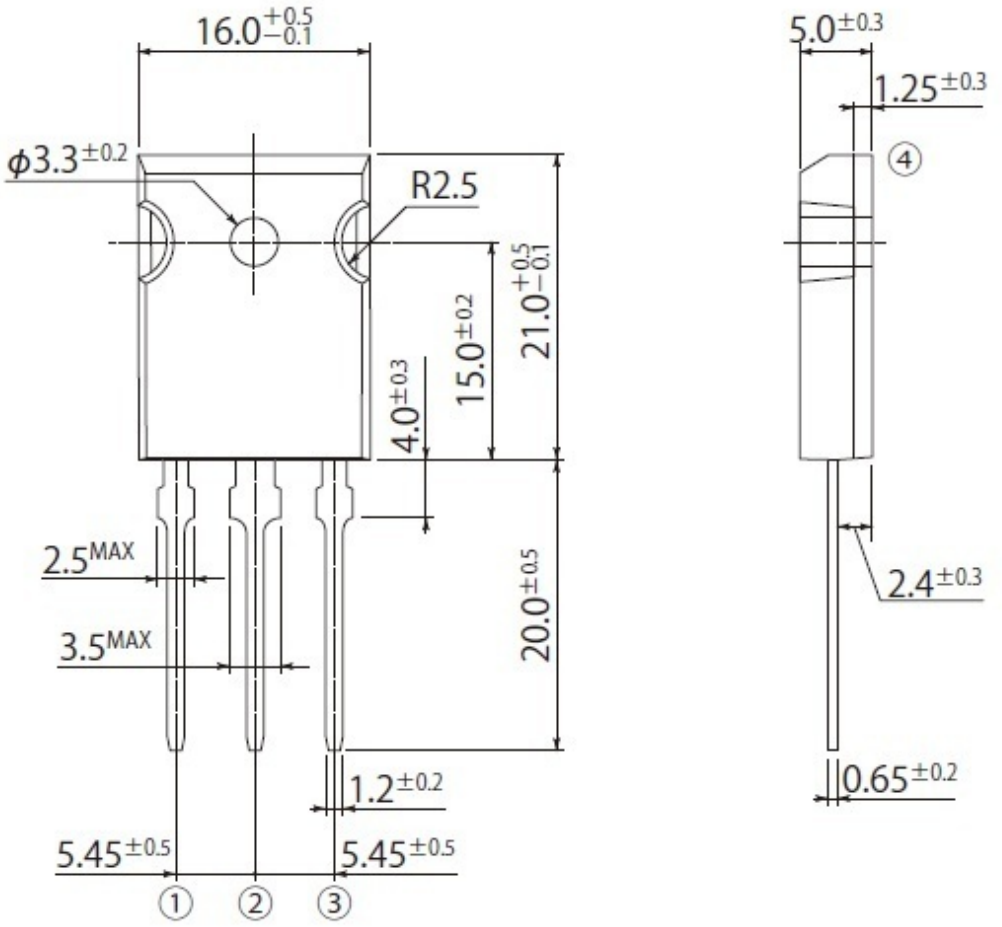
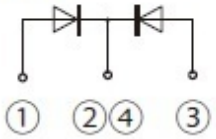


Fig. K5-2



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