

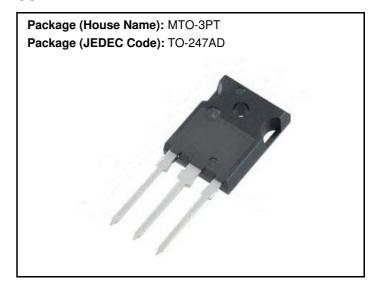
S40HC1R5T

Schottky Barrier Diodes 15V, 40A

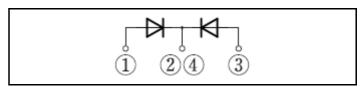
Feature

- · High Recovery Speed
- $\bullet \ Low \ V_F$
- Pb free terminal
- RoHS:Yes

OUTLINE



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	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	450	А
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	980	А
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N∙m

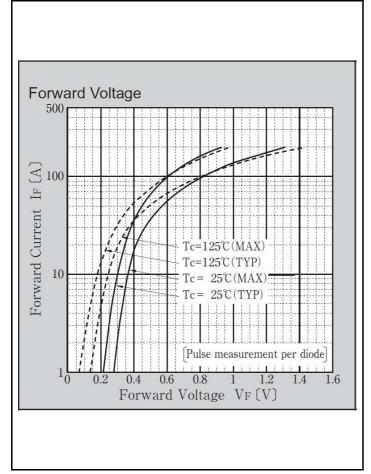
^{* :} See the original Specifications

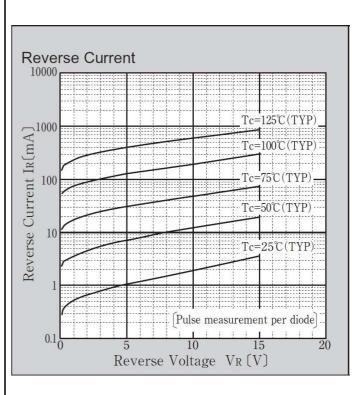
Electrical Characteristics (unless otherwise specified : Tc=25°C)

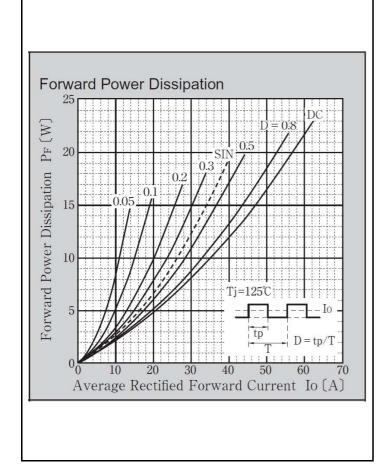
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O.m.
Forward voltage	V _F	IF=20A, Pulse measurement, per diode		0.36	0.41	V
Reverse current	I _R	VR=15V, Pulse measurement, per diode			10	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		960		pF
Thermal resistance	Rth(j-c)	Junction to case			0.6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

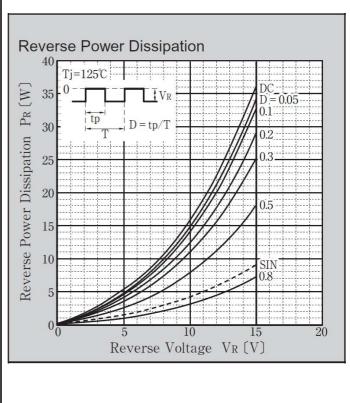
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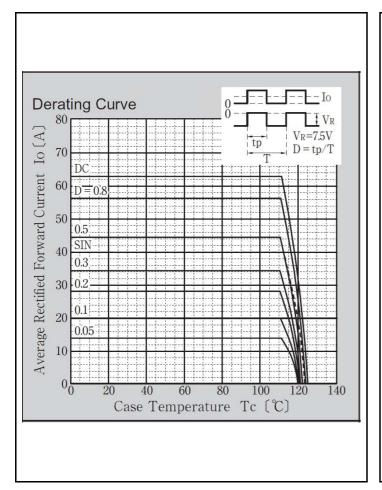
CHARACTERISTIC DIAGRAMS

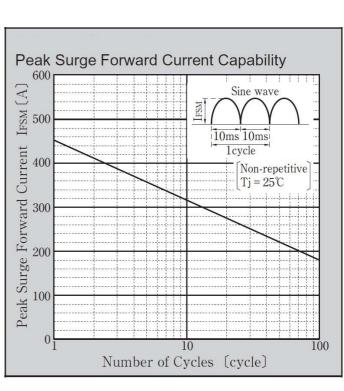


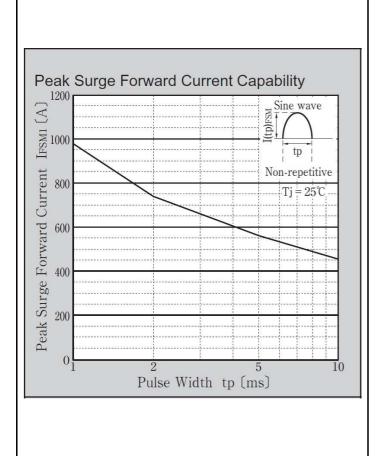


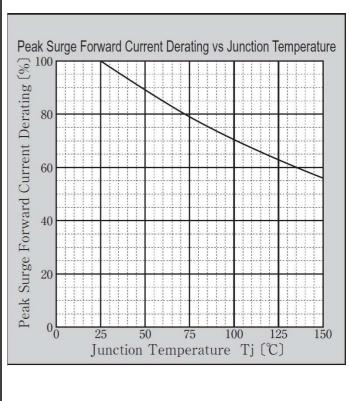


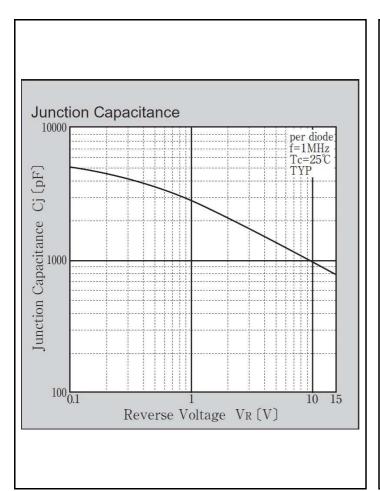


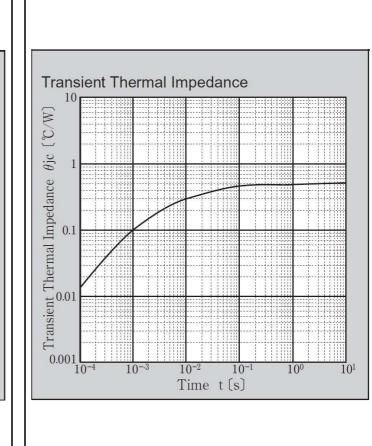










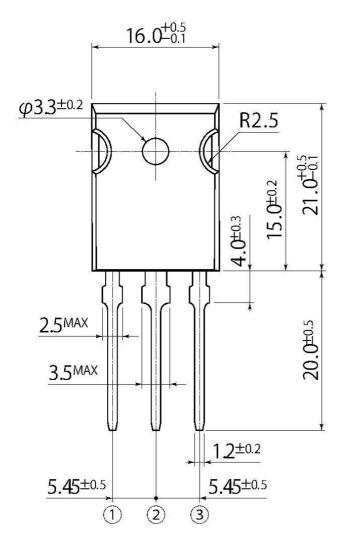


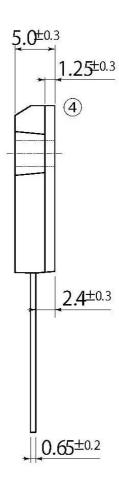
unit:mm

scale: 2/1

K5

JEDEC Code	TO-247AD		
JEITA Code	1		
House Name	MTO-3PT(3pin)		





Notes

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[Special applications]

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