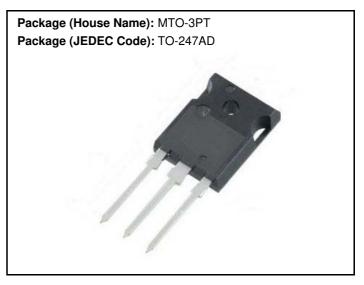
S30SC4MT

Schottky Barrier Diodes 40V, 30A

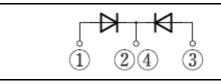
Feature

- 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 Storage temperature Tstg -55 to 150 Junction temperature Tj 150

Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V _{RRM}		40	V
Repetitive peak surge reverse voltage	V _{RRSM}	Pulse width 0.5ms, duty=1/40	45	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=132°C	30	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	300	А
Mounting torque	TOR	(Recommended torque: 0.5N·m)	0.8	N∙m

* : See the original Specifications

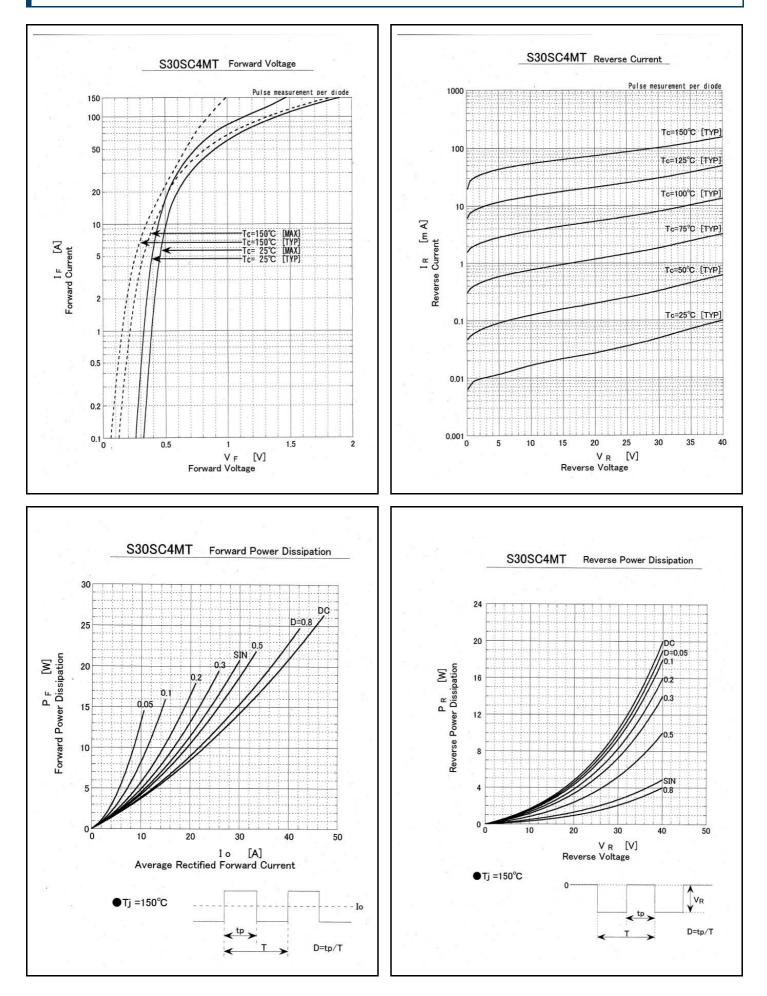
Unit

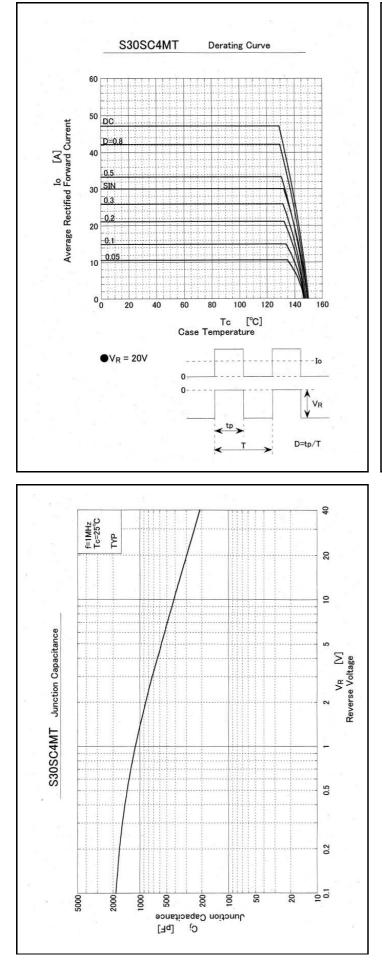
°C

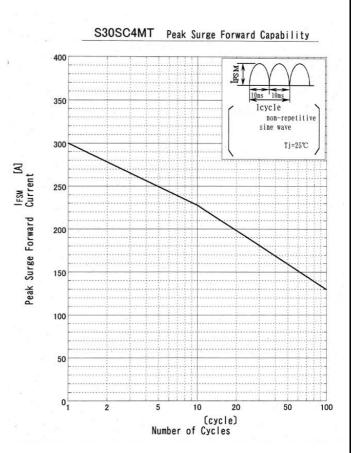
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	ont
Forward voltage	V _F	IF=15A, Pulse measurement, per diode		0.49	0.55	V
Reverse current	I _R	VR=40V, Pulse measurement, per diode			1.5	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		410		pF
Thermal resistance	Rth(j-c)	Junction to case			0.8	°C/W

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

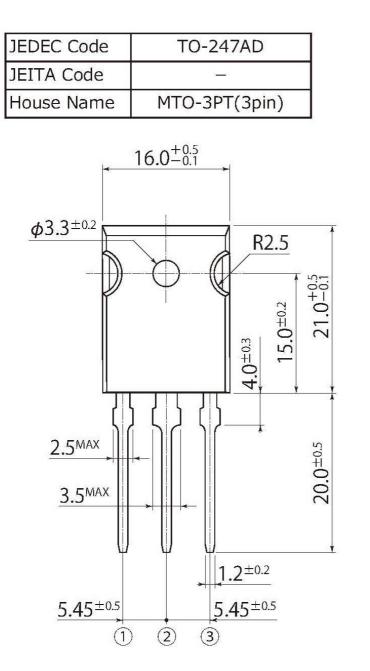


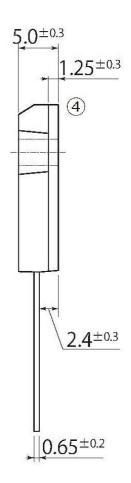




unit:mm

K5





Notes

- 1. If you wish to use any such product, please be sure to refer to the specifications issued by Shindengen.
- 2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

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Computers, office automation and other office equipment, communication terminals, test and measurement equipment, audio/visual equipment, amusement equipment, consumer electronics, machine tools, personal electronic equipment, industrial equipment, etc.

[Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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