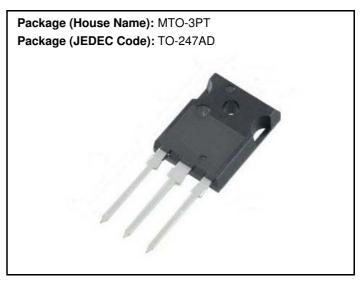
S60SC6MT

Schottky Barrier Diodes 60V, 60A

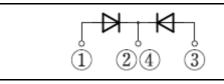
Feature

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

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

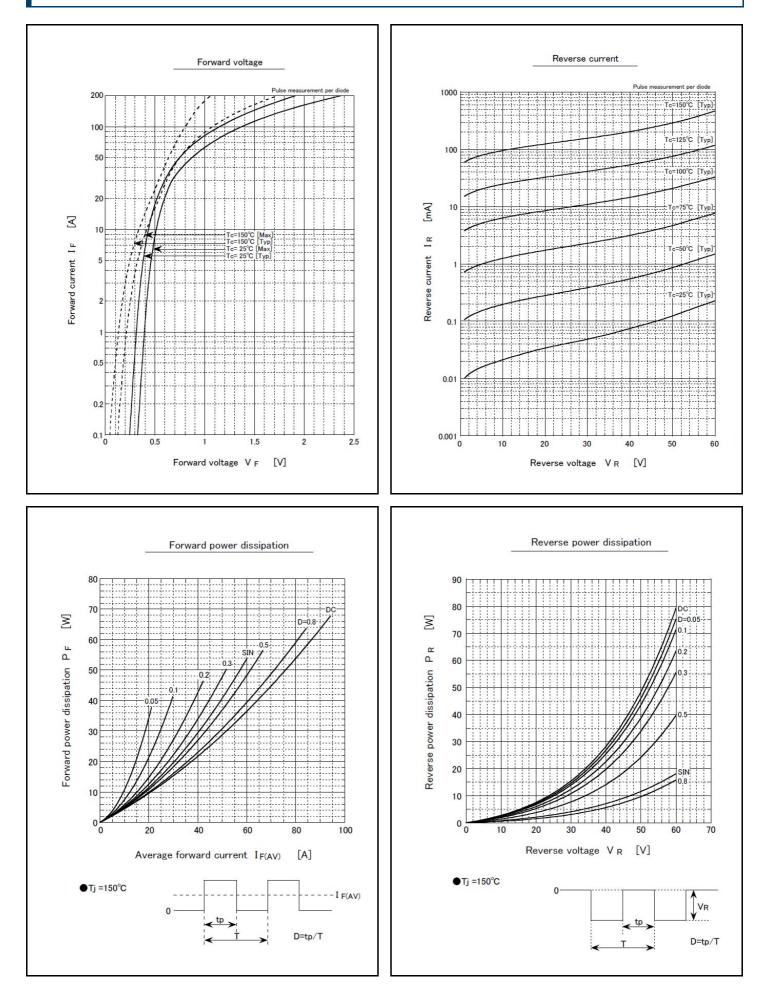
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		60	V
Repetitive peak surge reverse voltage	V _{RRSM}	Pulse width 0.5ms, duty=1/40	65	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=121°C	60	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	470	А
Mounting torque	TOR	(Recommended torque: 0.5N·m)	0.8	N∙m

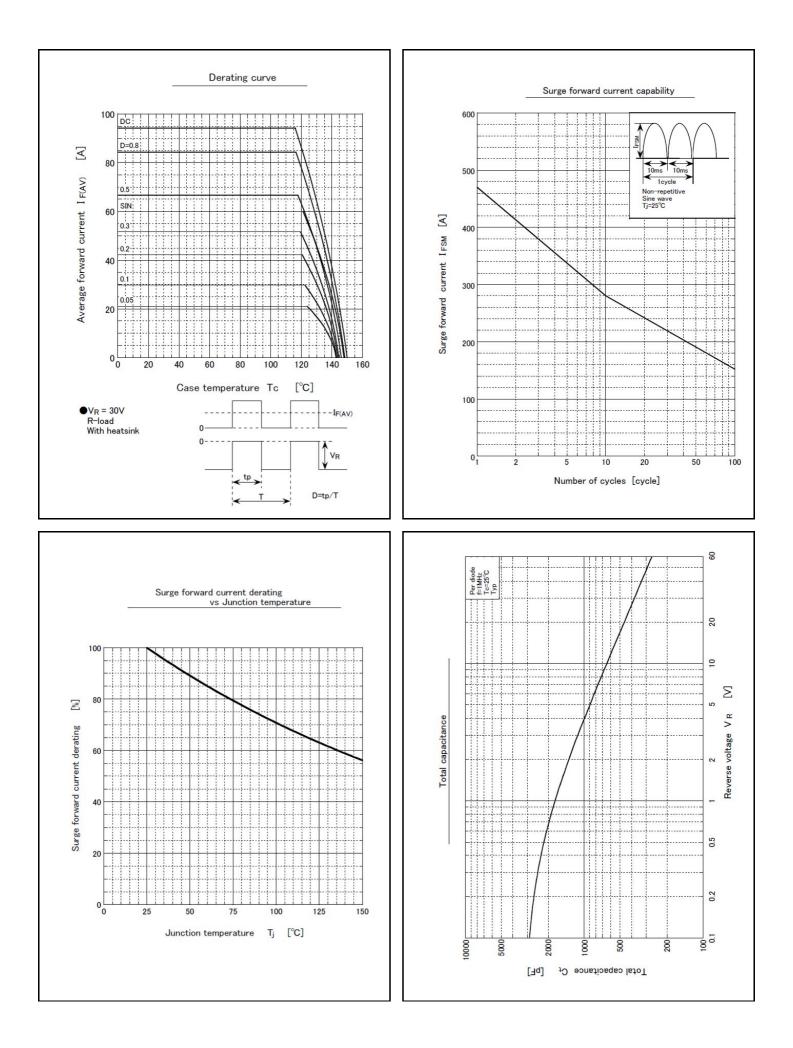
* : See the original Specifications

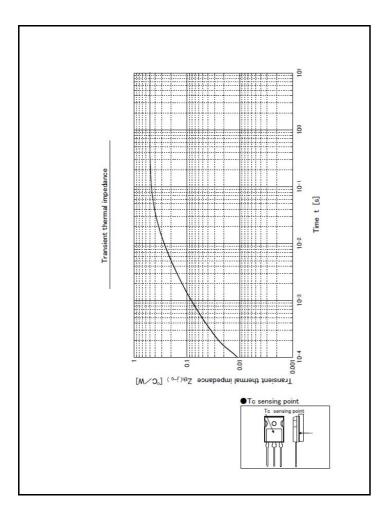
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Forward voltage	V _F	IF=30A, Pulse measurement, per diode		0.6	0.67	V
Reverse current	I _R	VR=60V, Pulse measurement, per diode			2	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		640		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.5	°C/W

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

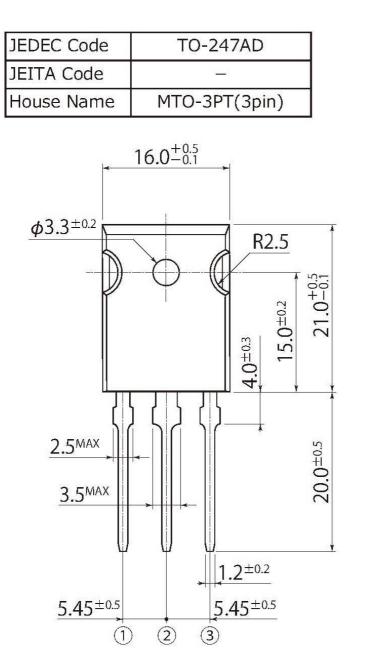


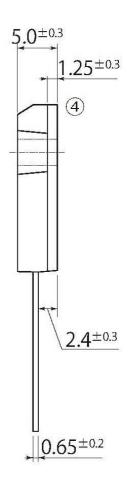




unit:mm

K5





Notes

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[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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