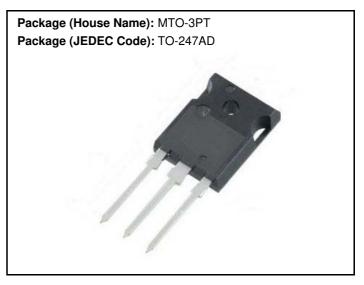
S60HC1R5T

Schottky Barrier Diodes 15V, 60A

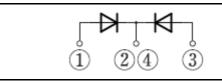
Feature

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

OUTLINE



Equivalent circuit



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

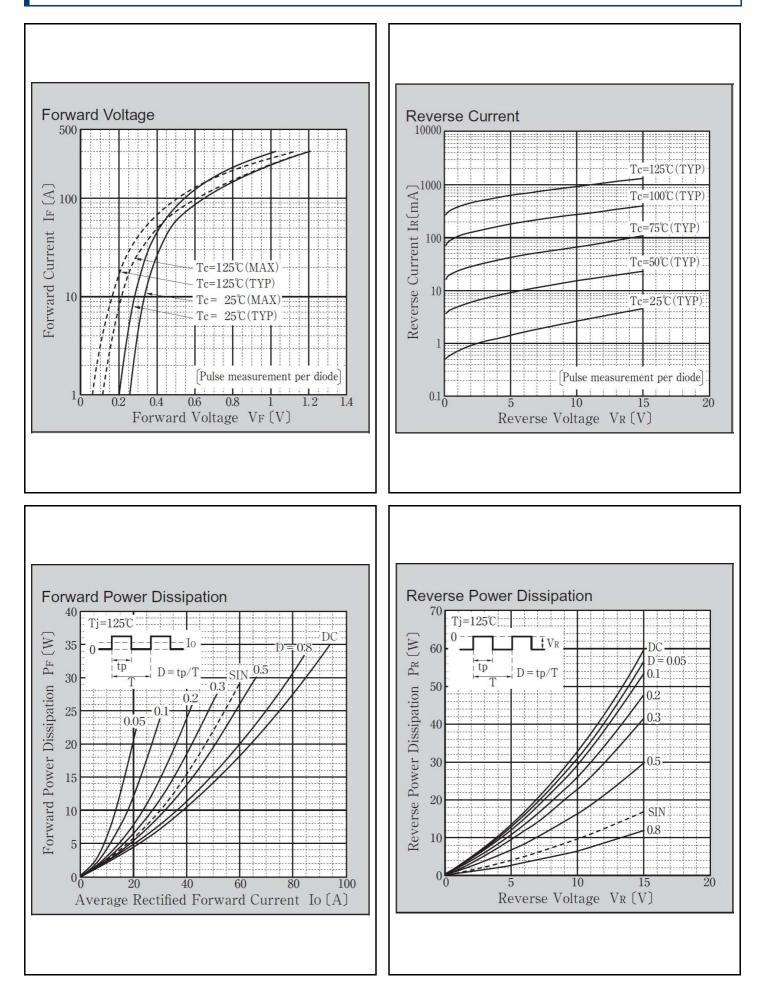
Item	Symbol	Conditions	Ratings	Unit	
Storage temperrature	Tstg		-55 to 125	°C	
Junction temperature	Tj		125	°C	
Repetitive peak reverse voltage	V _{RRM}		15	V	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=110°C	60	A	
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	600	A	
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	1400	A	
Mounting torque	TOR	(Recommended torque: 0.5N·m)	0.8	N∙m	

* : See the original Specifications

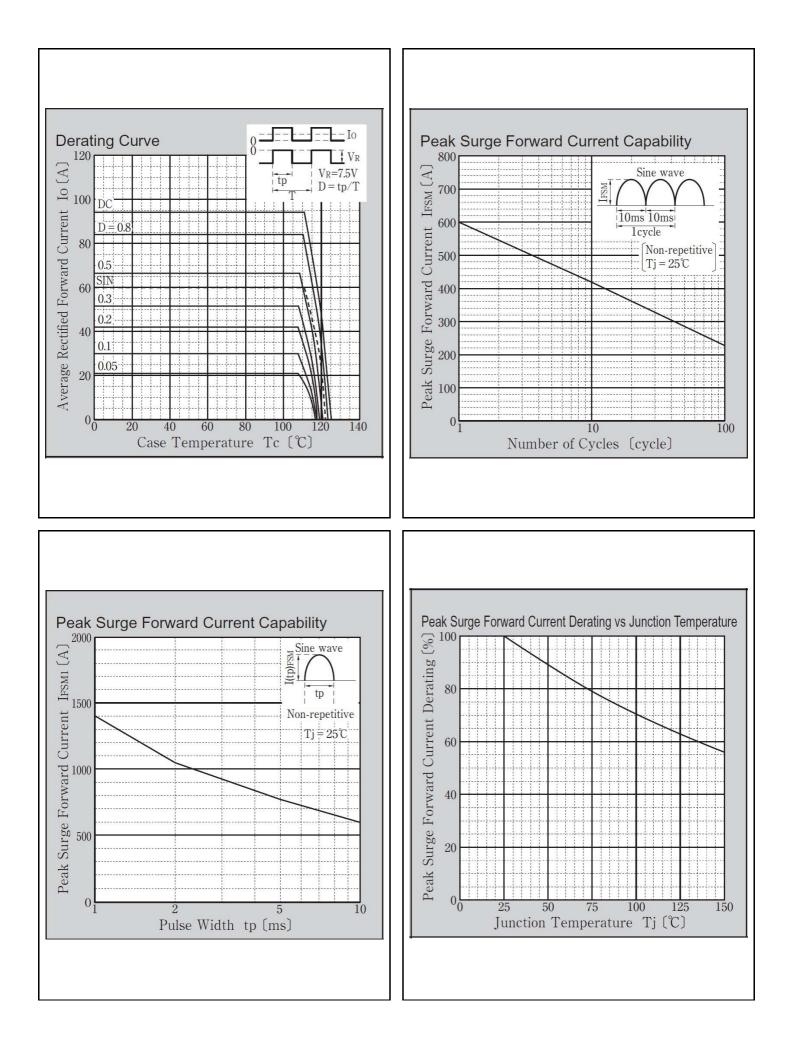
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	onn
Forward voltage	V _F	IF=30A, Pulse measurement, per diode		0.36	0.41	V
Reverse current	I _R	VR=15V, Pulse measurement, per diode			15	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		1400		pF
Thermal resistance	Rth(j-c)	Junction to case			0.4	°C/W

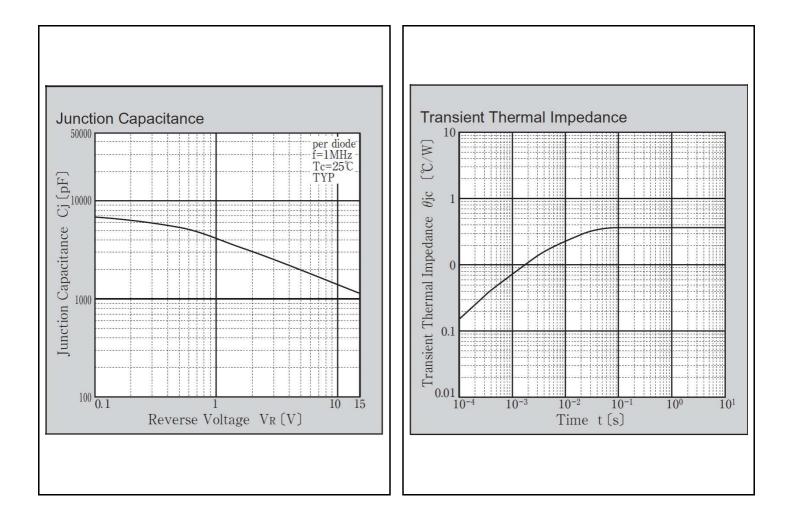
* : See the original Specifications

CHARACTERISTIC DIAGRAMS



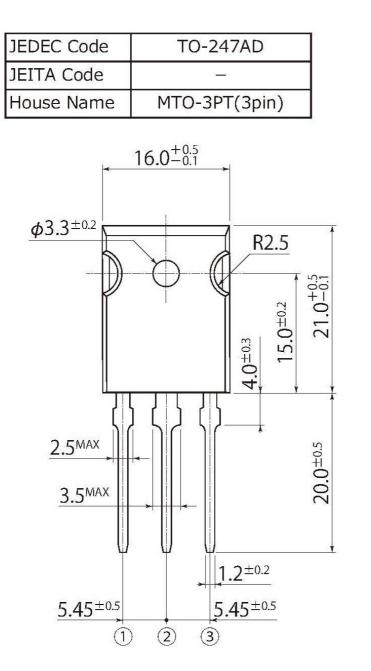
3/7

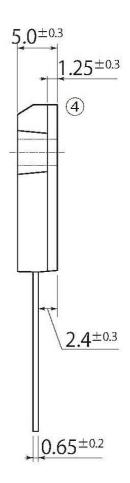




unit:mm

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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