

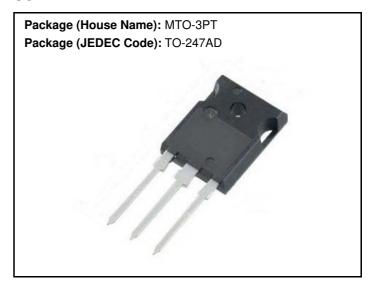
S60SC3LT

Schottky Barrier Diodes 30V, **60A**

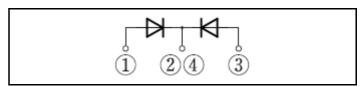
Feature

- · 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 150	°C	
Junction temperature	Tj		150	°C	
Repetitive peak reverse voltage	V_{RRM}		30	V	
Repetitive peak surge reverse voltage	V _{RRSM}	Pulse width 0.5ms, duty=1/40	35	V	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=138°C	60	А	
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	650	Α	
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	1300	А	
Repetitive peak surge reverse power	P _{RRSM}	Pulse width 10μs, Tj=25°C, per diode	1000	W	
Mounting torque	TOR	(Recommended torque : 0.5N⋅m)	0.8	N∙m	

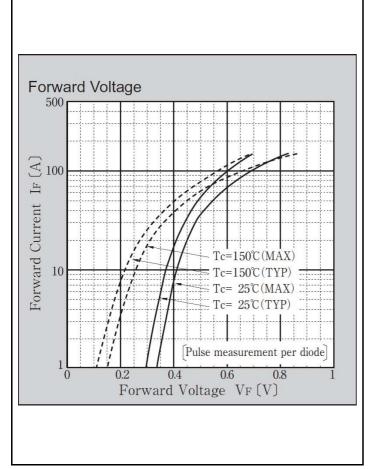
st :See the original Specifications

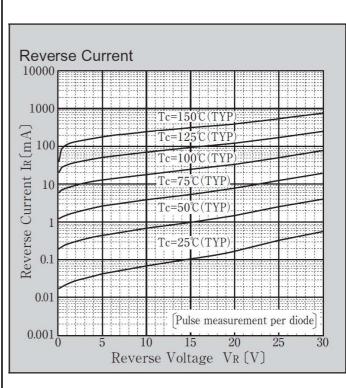
Electrical Characteristics (unless otherwise specified : Tc=25°C)

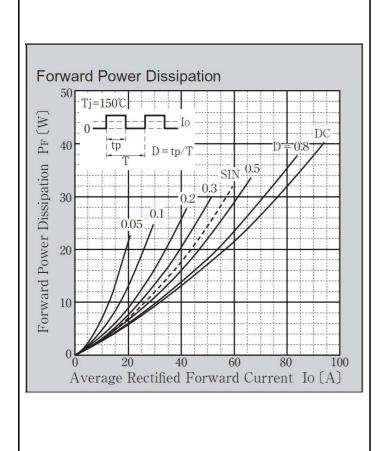
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=30A, Pulse measurement, per diode		0.44	0.48	V
Reverse current	I _R	VR=30V, Pulse measurement, per diode			25	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		1600		pF
Thermal resistance	Rth(j-c)	Junction to case			0.3	°C/W

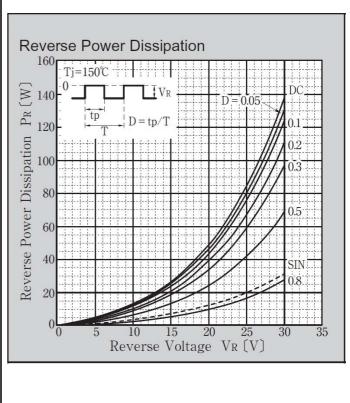
^{*} :See the original Specifications

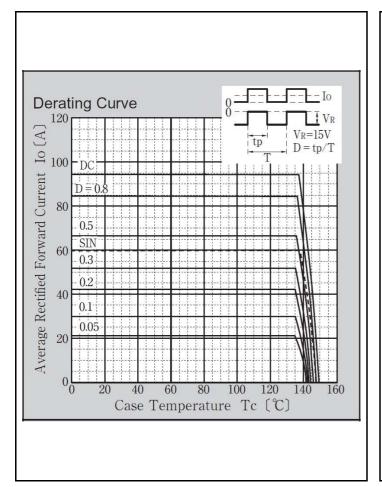
CHARACTERISTIC DIAGRAMS

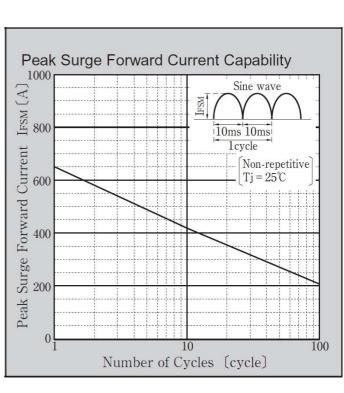


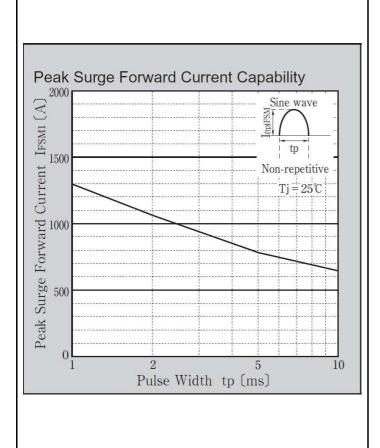


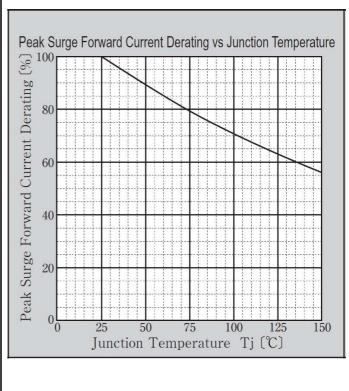


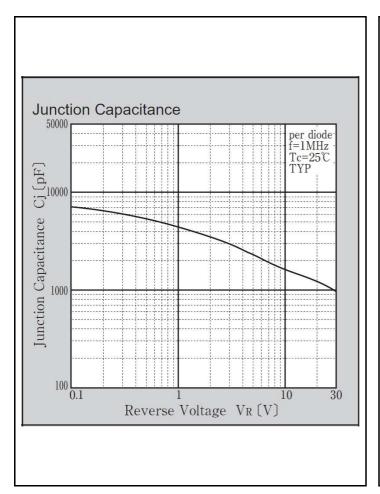


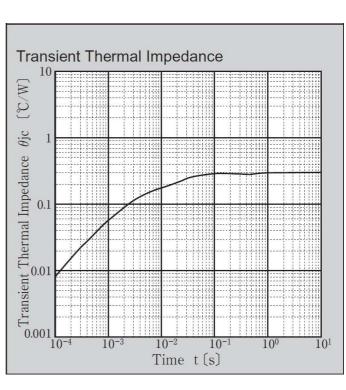


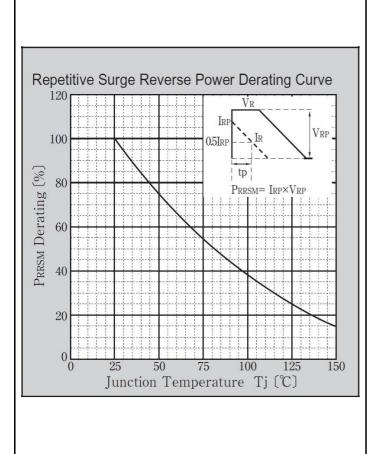


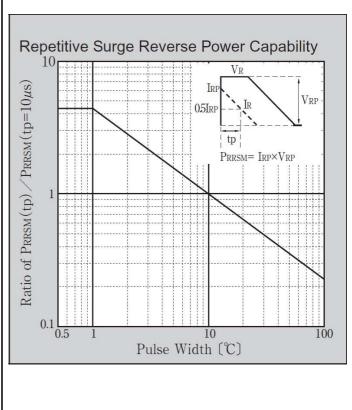








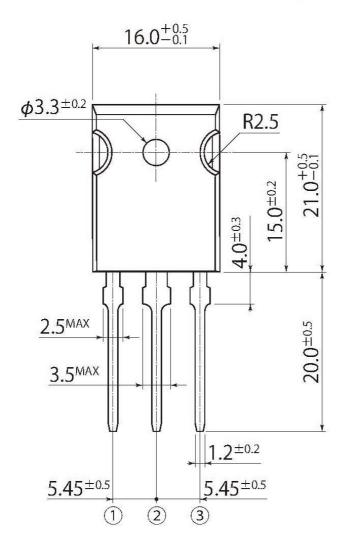


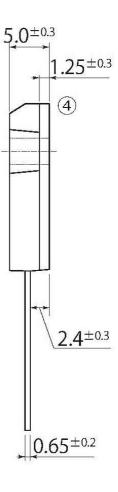


unit:mm

K5

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





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