

S60SC6MT

Schottky Barrier Diodes
60V, 60A

Feature

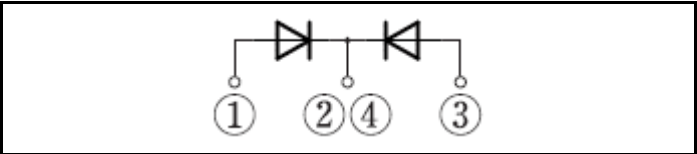
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): MTO-3PT
Package (JEDEC Code): TO-247AD



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	VRRM		60	V
Repetitive peak surge reverse voltage	VRRSM	Pulse width 0.5ms, duty=1/40	65	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=121 °C	60	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	470	A
Mounting torque	TOR	(Recommended torque : 0.5N・m)	0.8	N・m

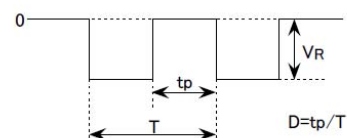
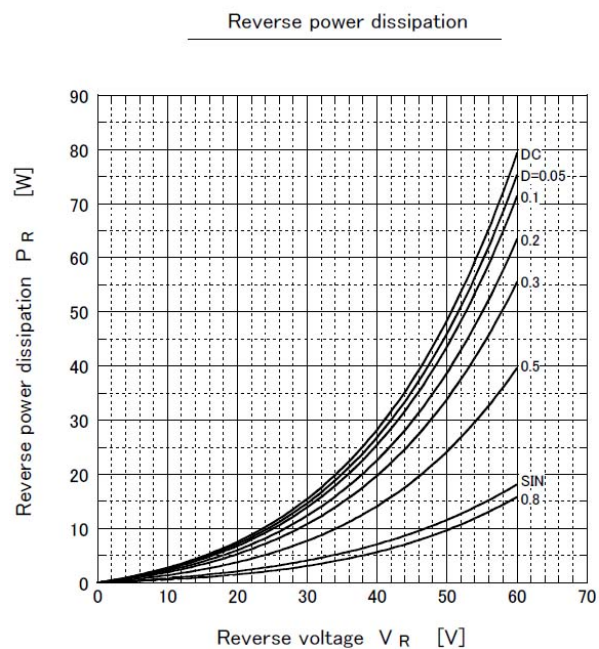
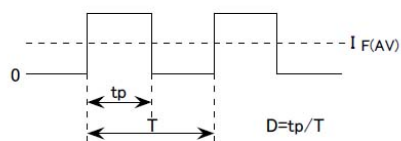
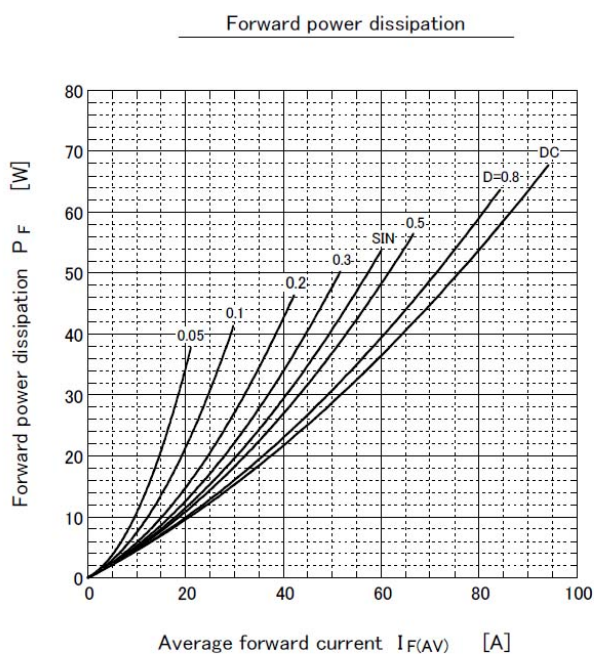
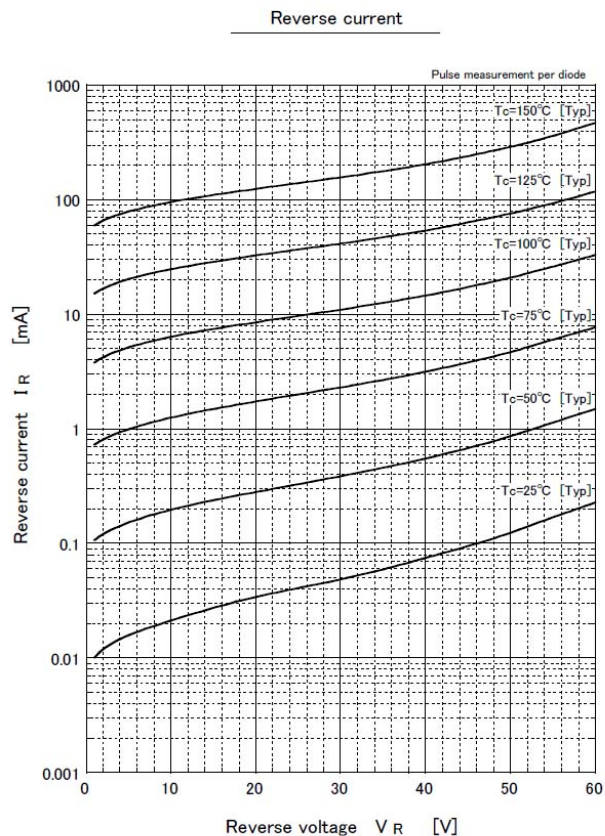
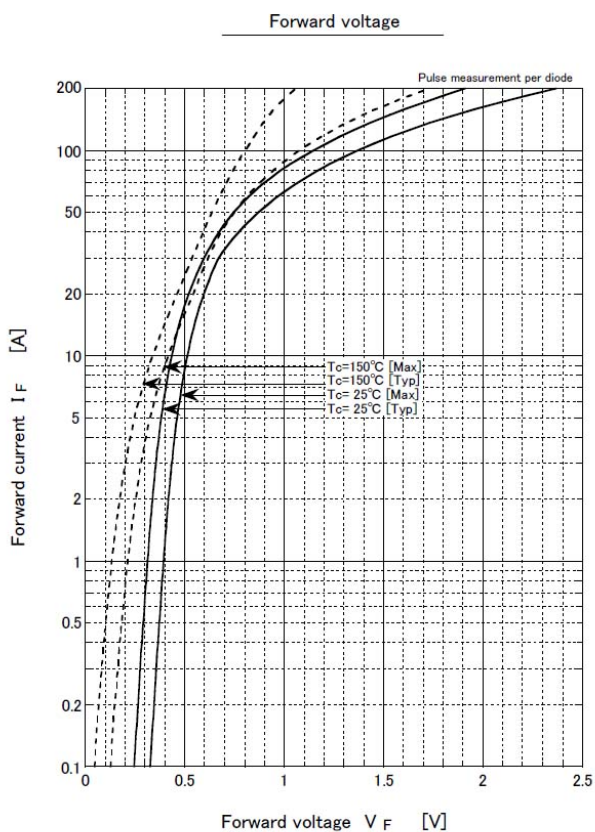
※ :See the original Specifications

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

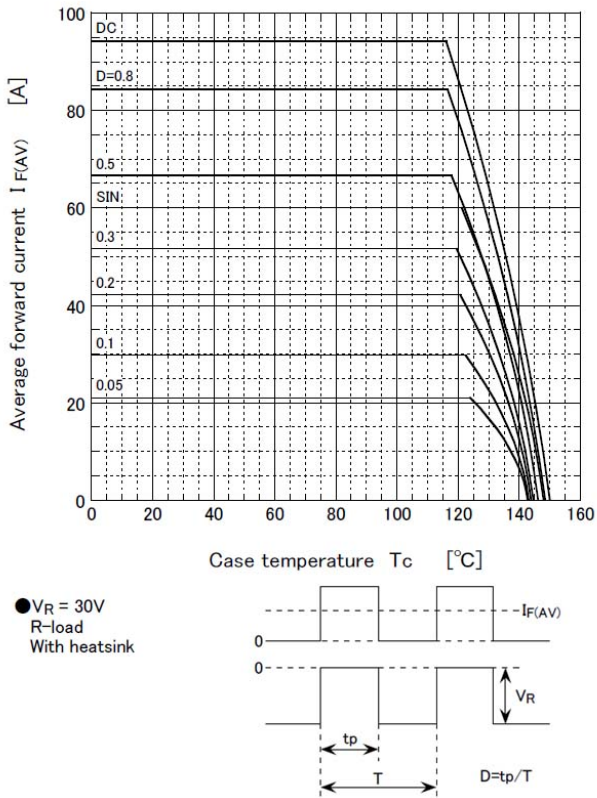
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=30A$, Pulse measurement, per diode		0.6	0.67	V
Reverse current	I_R	$V_R=60V$, Pulse measurement, per diode			2	mA
Total capacitance	C_t	$f=1MHz$, $V_R=10V$, per diode		640		pF
Thermal resistance	$R_{th(j-c)}$	Junction to case, With heatsink			0.5	°C/W

※ : See the original Specifications

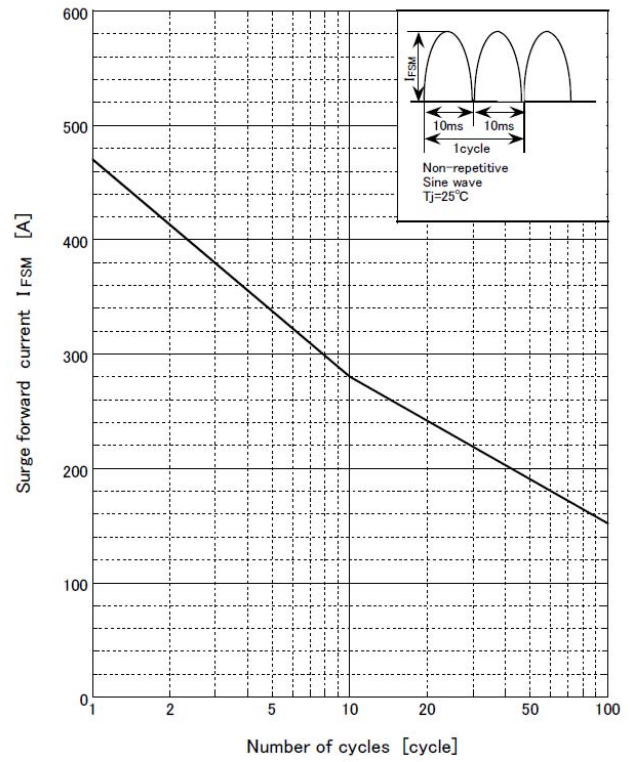
CHARACTERISTIC DIAGRAMS



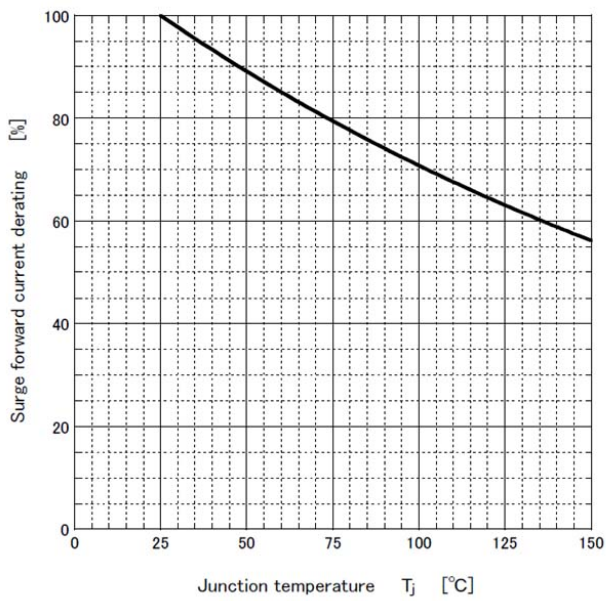
Derating curve



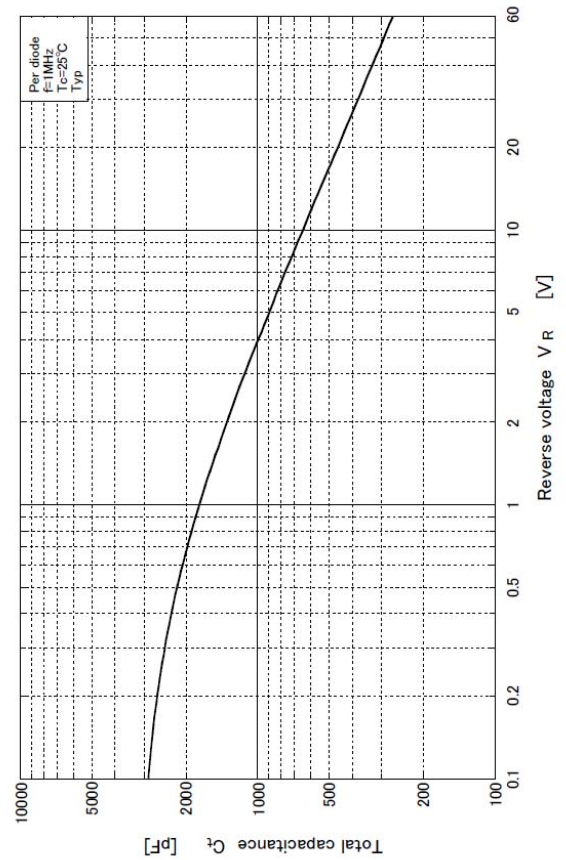
Surge forward current capability

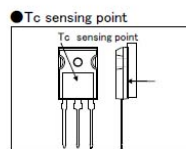
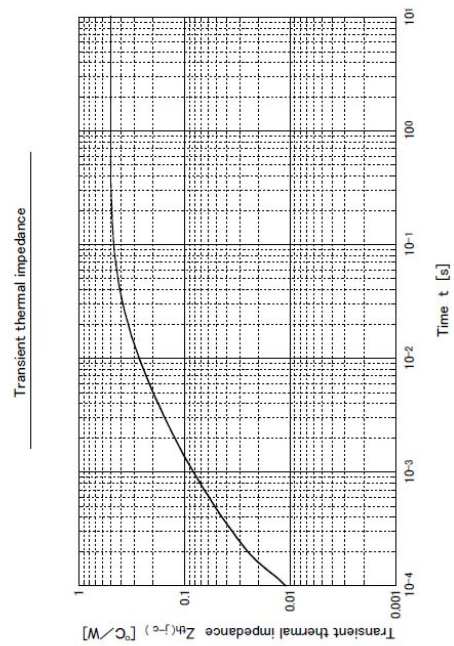


Surge forward current derating vs Junction temperature



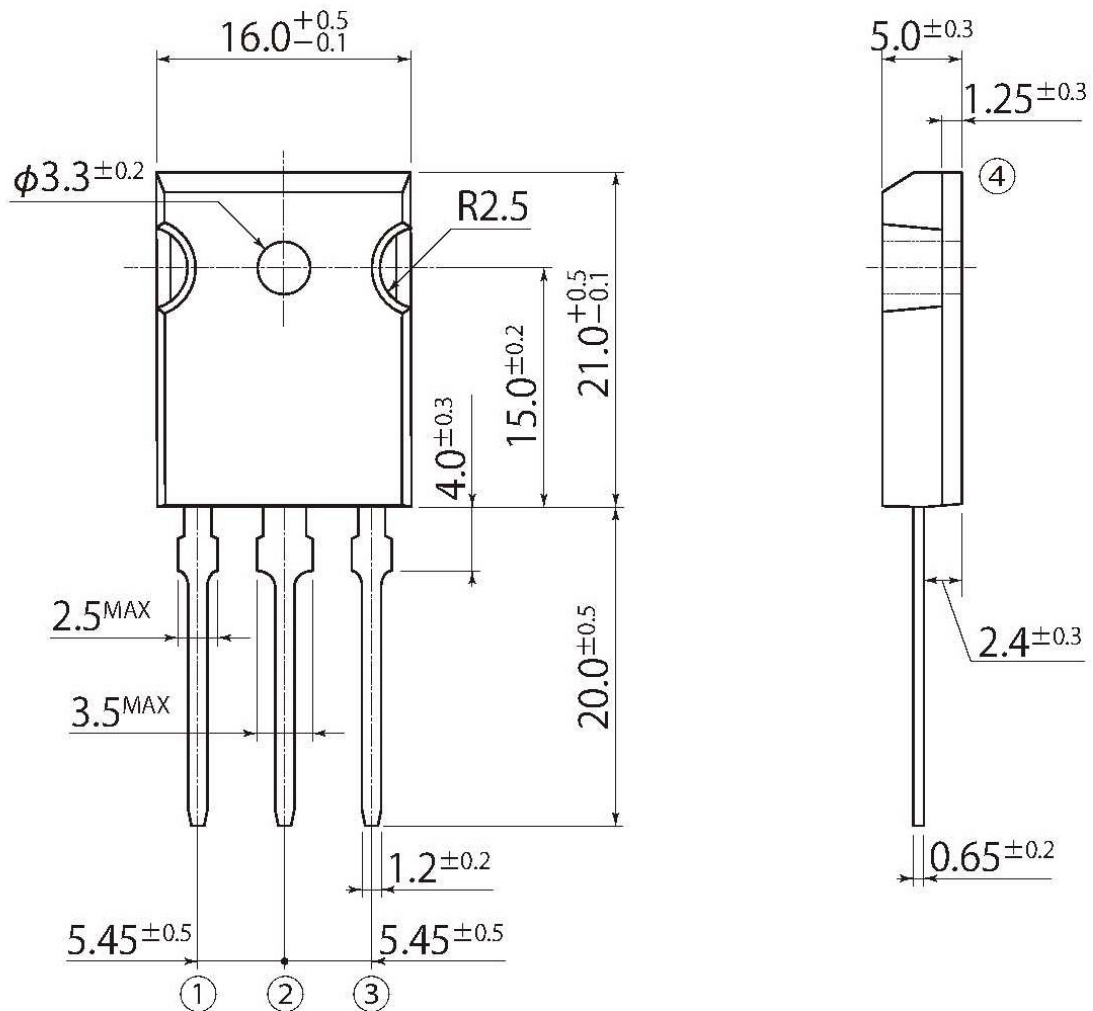
Total capacitance





K5

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



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