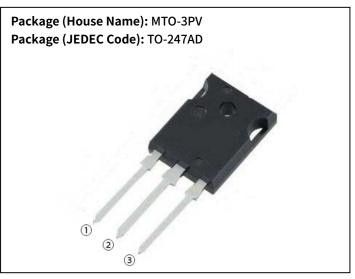
S20LC60USV

Fast Recovery Diodes 600V, 20A

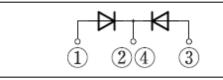
Feature

- High Voltage
- Low Noise
- Available for automotive use
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

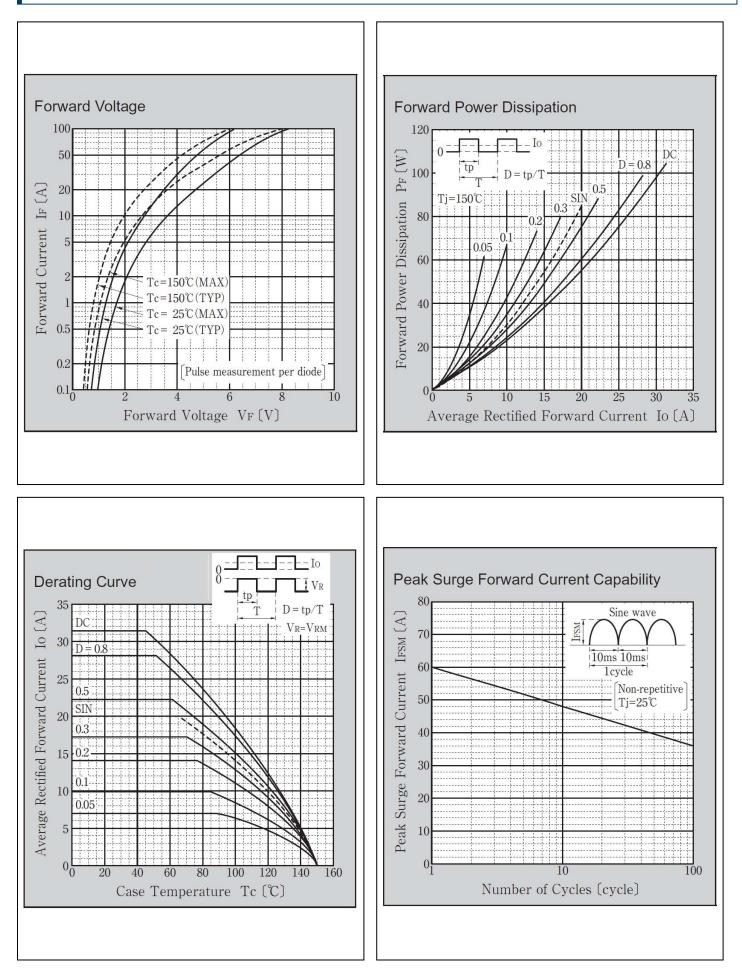
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V _{RRM}		600	v
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=65°C	20	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Rating of per diode, Tj=25°C	60	A
Current squared time	l²t	1ms≦tp<10ms, Tj=25°C, Rating of per diode	18	A ² s
Mounting torque	TOR	(Recommended torque:0.5N·m)	0.8	N∙m

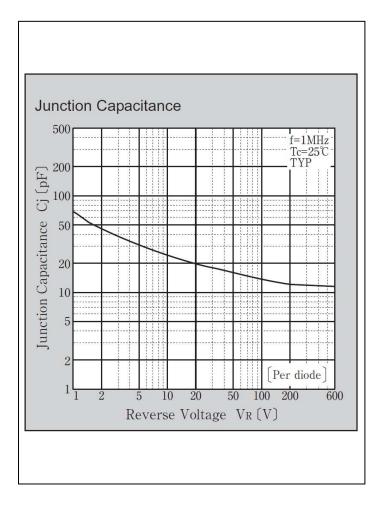
※ ∶See the original Specifications

Electrical Characteristics (unless otherwise specified : Tc=25°C)									
Item	C	Conditions	Ratings						
	Symbol		MIN	ТҮР	МАХ	Unit			
Forward voltage	V _F	IF=10A, Pulse measurement, Per diode			3.6	V			
Reverse current	I _R	VR=600V, Pulse measurement, Per diode			50	μA			
Reverse recovery time	trr	IF=0.5A, IR=1A (Recovery point 90%), Per Diode			25	ns			
Total capacitance	Ct	f=1MHz, VR=10V, Per diode		24		pF			
Thermal resistance	Rth(j-c)	Junction to case			1	°C/W			

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

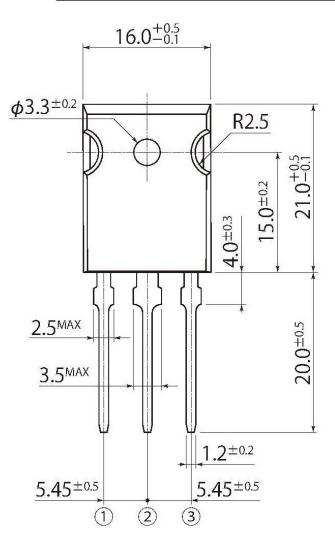


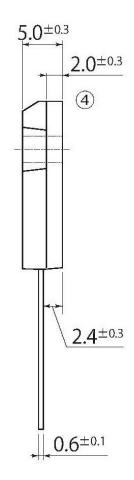


unit:mm

K7

JEDEC Code	TO-247AD		
JEITA Code	_		
House Name	MTO-3PV		





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.

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