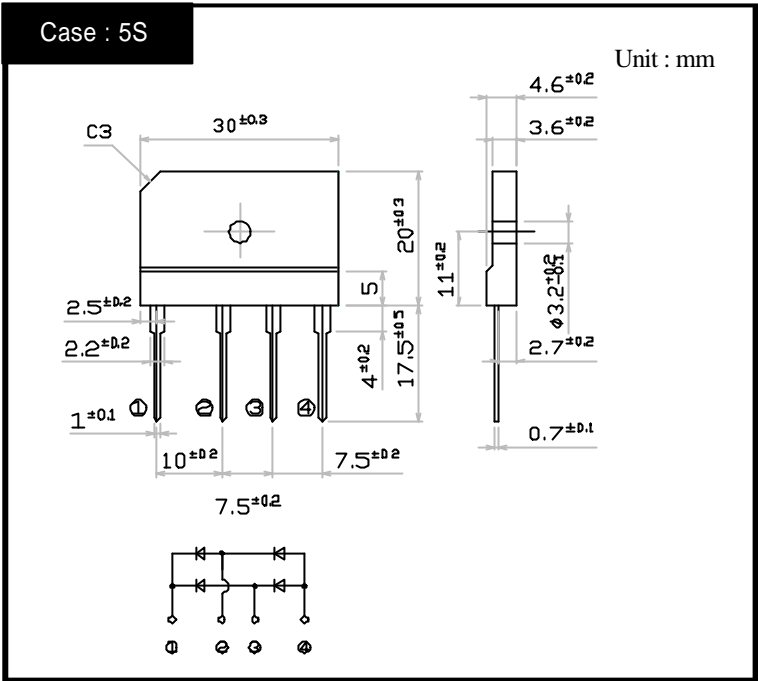


D6SB60L

600V 6A

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified Tl=25)

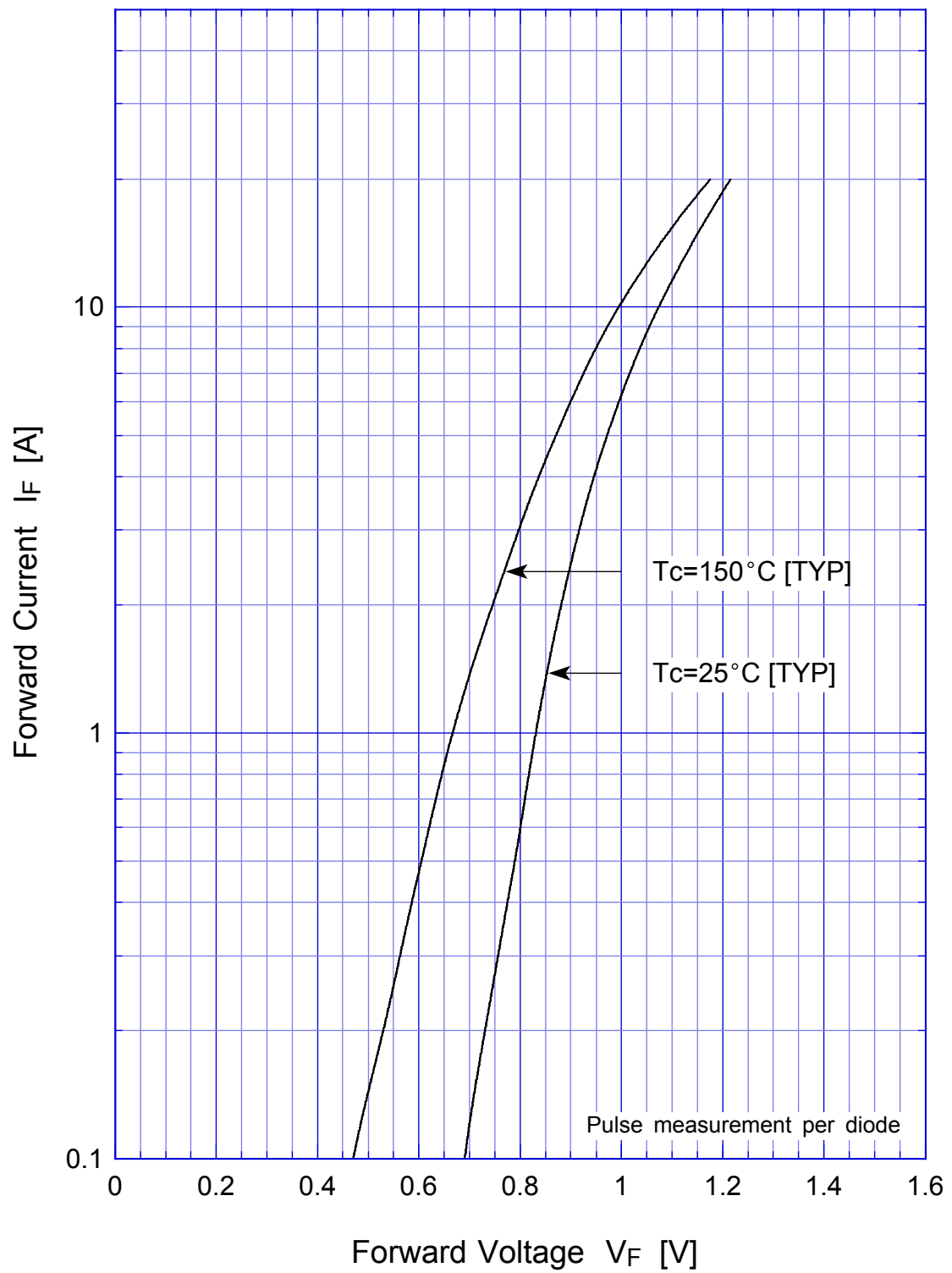
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink T _c =112	6	A
		50Hz sine wave, R-load Without heatsink T _a =25	2.8	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, T _j =25	170	A
Current Squared Time	I ² t	2ms t < 10ms T _j = 25	90	A ² s
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2.5	kV
Mounting Torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

Electrical Characteristics (If not specified Tl=25)

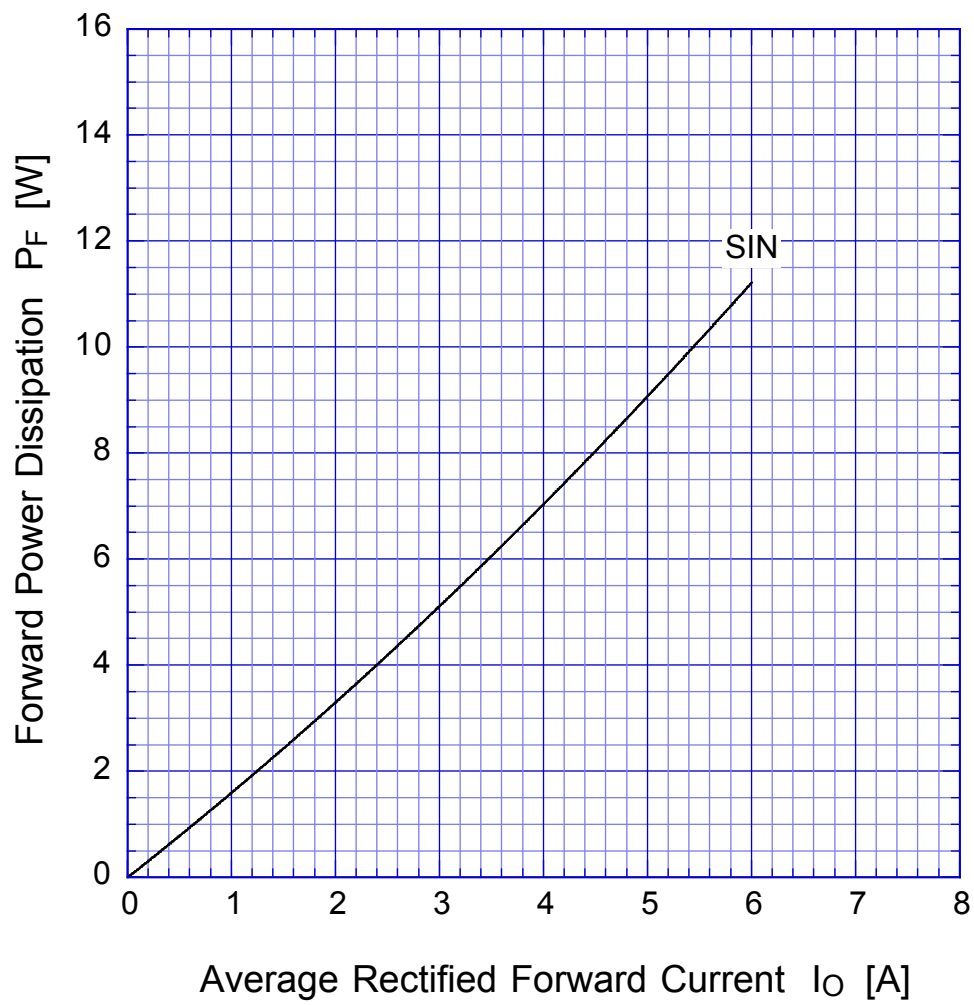
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =3A, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.10	μ A
Reverse Recovery Time	t _{rr}	I _F =0.1A, I _R =0.1A Rating of per diode	Max.10	μ s
Thermal Resistance	j _c	junction to case With heatsink	Max.3.4	/W
	j _l	junction to lead Without heatsink	Max.5	
	j _a	junction to ambient Without heatsink	Max.26	

D6SB60L

Forward Voltage



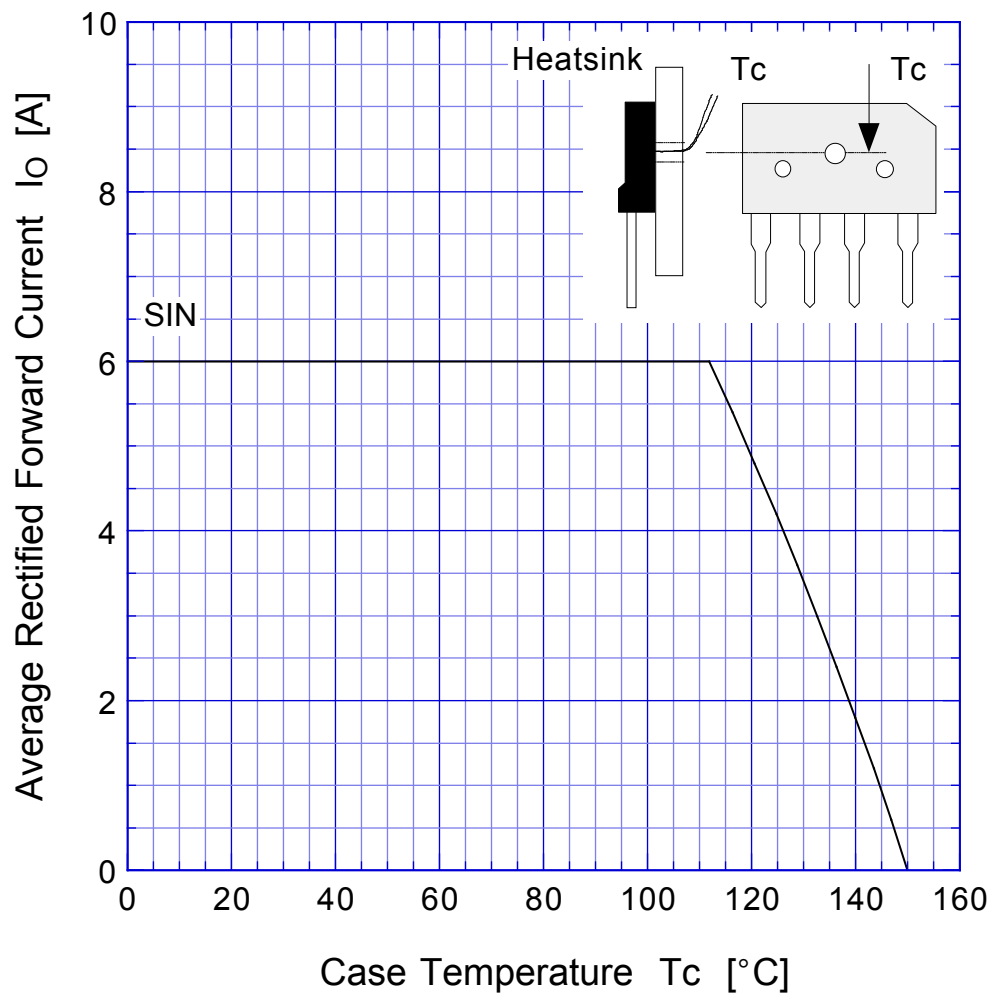
D6SB60L Forward Power Dissipation



$T_j = 150^\circ\text{C}$
Sine wave

D6SB60L

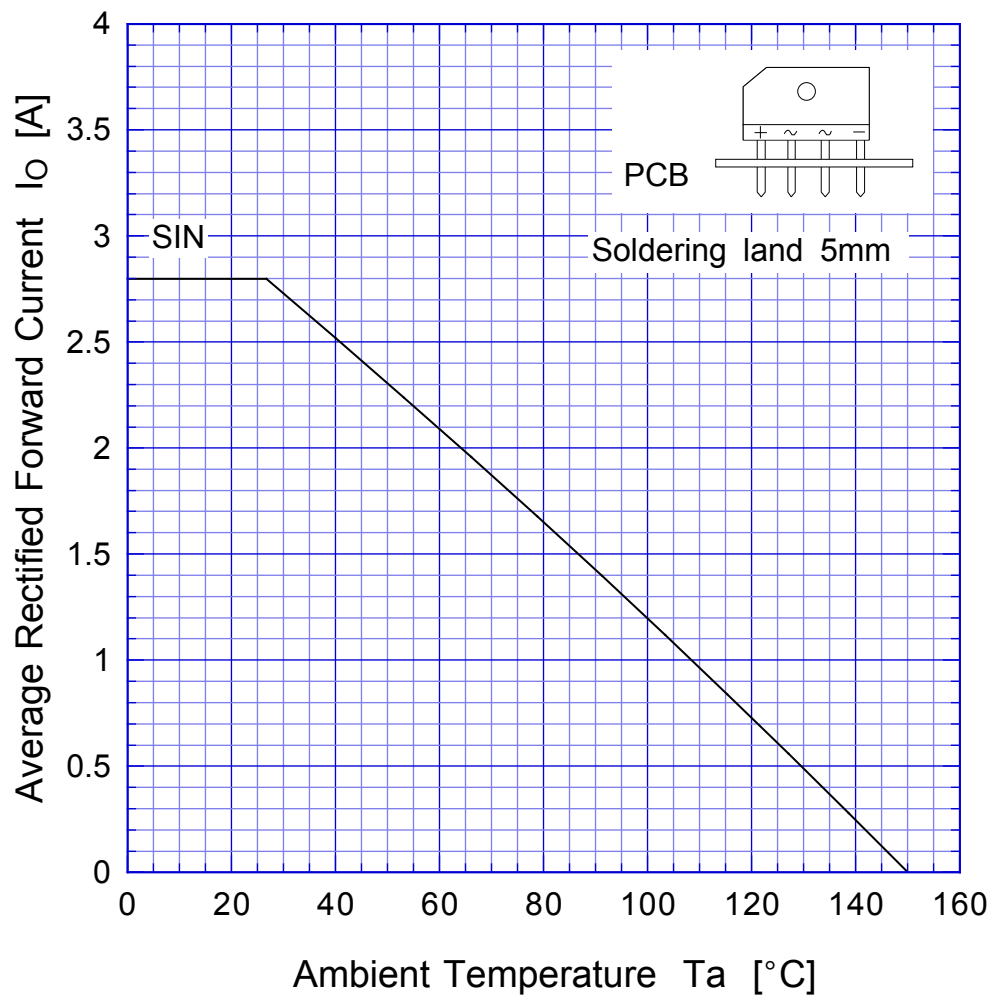
Derating Curve



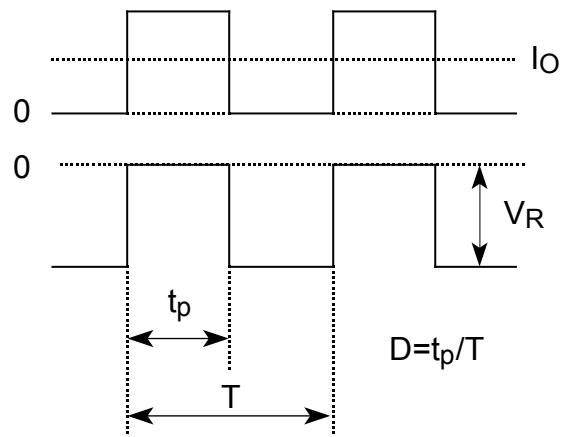
Sine wave
R-load
with heatsink

D6SB60L

Derating Curve



$V_R = 600V$



D6SB60L

Peak Surge Forward Capability

