

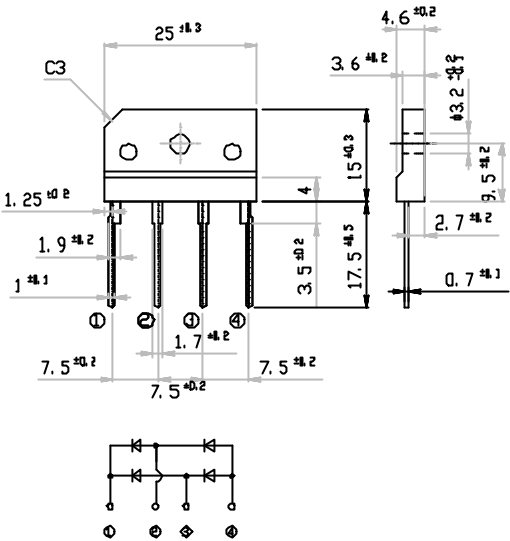
D4SB60L

600V 4A

OUTLINE DIMENSIONS

Case : 3S

(Unit : mm)



RATINGS

• Absolute Maximum Ratings (If not specified Tl=25)

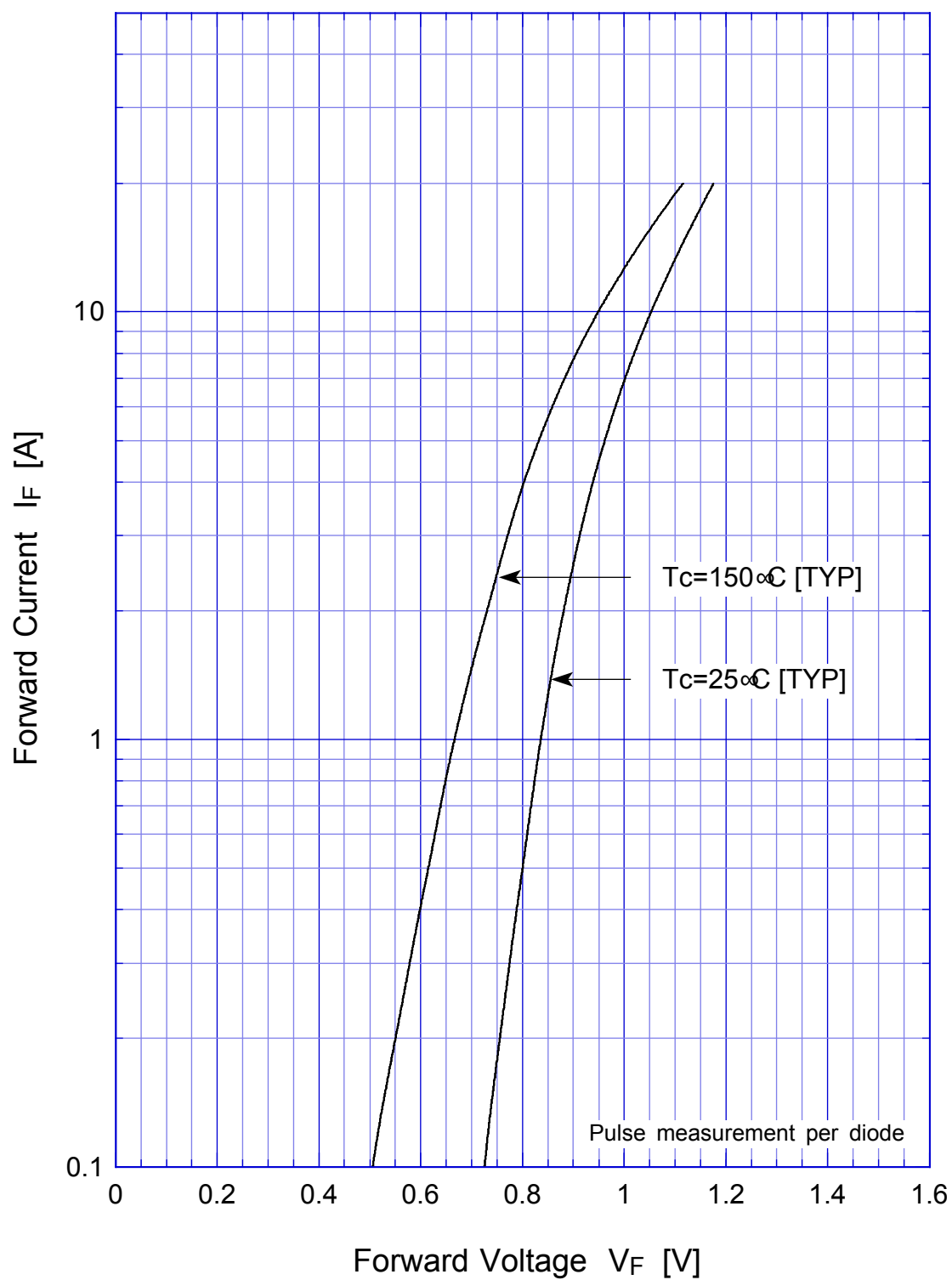
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink Tc=111	4	A
		50Hz sine wave, R-load Without heatsink Ta=25	2.5	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25	150	A
Current Squared Time	I ² t	2ms t<10ms Tj= 25	80	A ² s
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

• Electrical Characteristics (If not specified Tl=25)

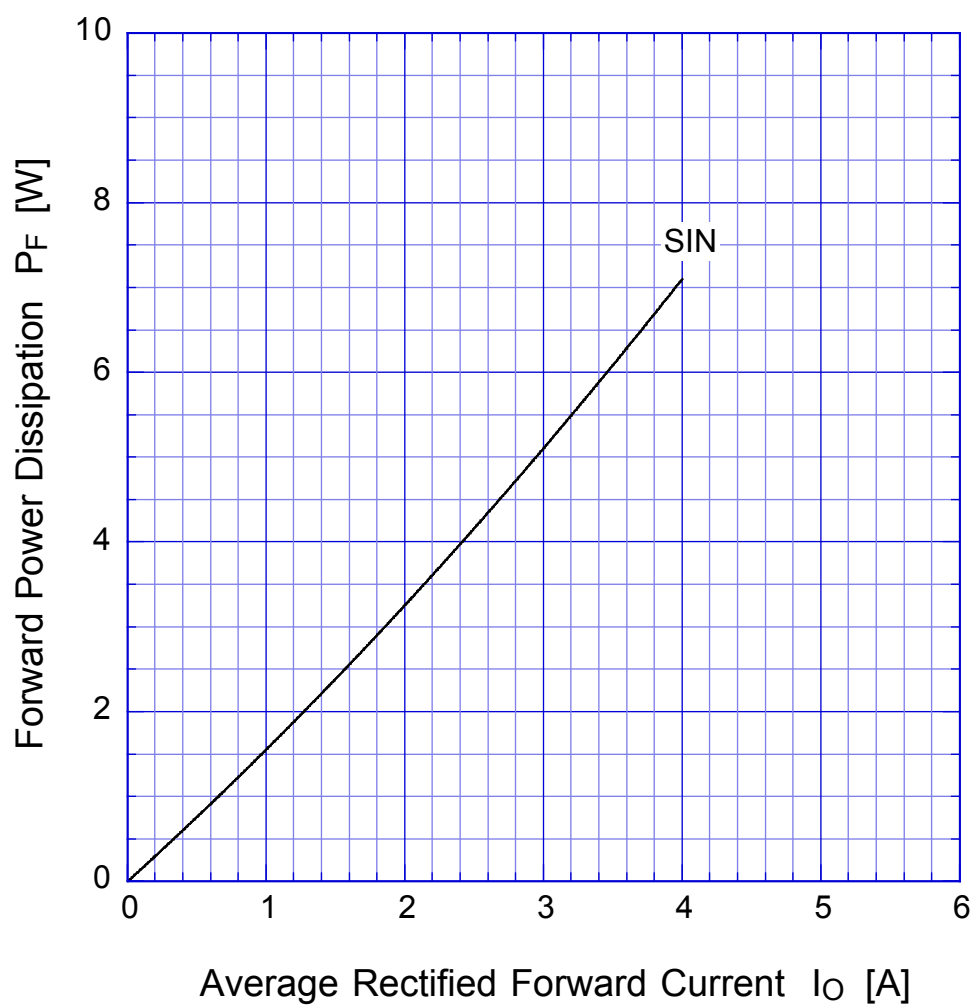
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =2A, Pulse measurement, Rating of per diode	Max.0.95	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.10	μA
Reverse Recovery Time	t _{rr}	I _F =0.1A, I _R =0.1A, Rating of per diode	Max.10	μs
Thermal Resistance	θ _{jc}	junction to case With heatsink	Max.5.5	/W
	θ _{jl}	junction to lead Without heatsink	Max.6	
	θ _{ja}	junction to ambient Without heatsink	Max.30	

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Forward Voltage



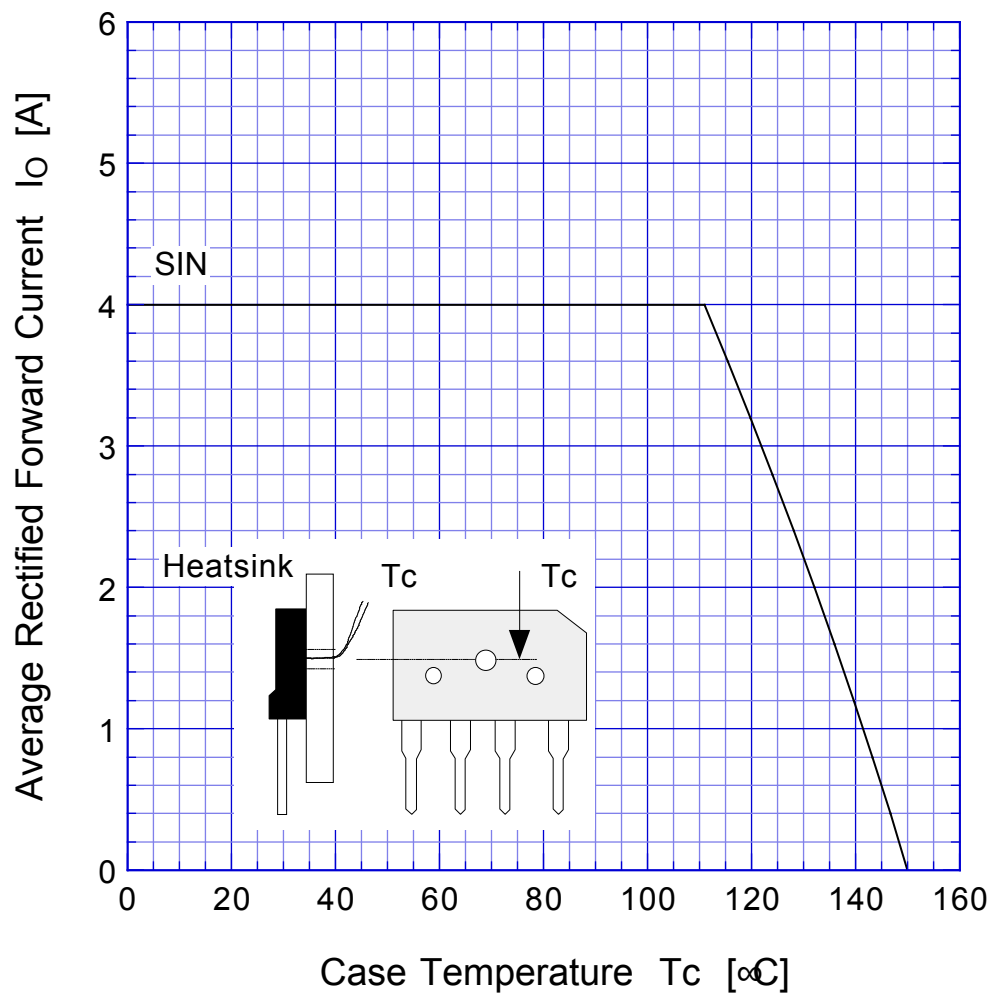
D4SB60L Forward Power Dissipation



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

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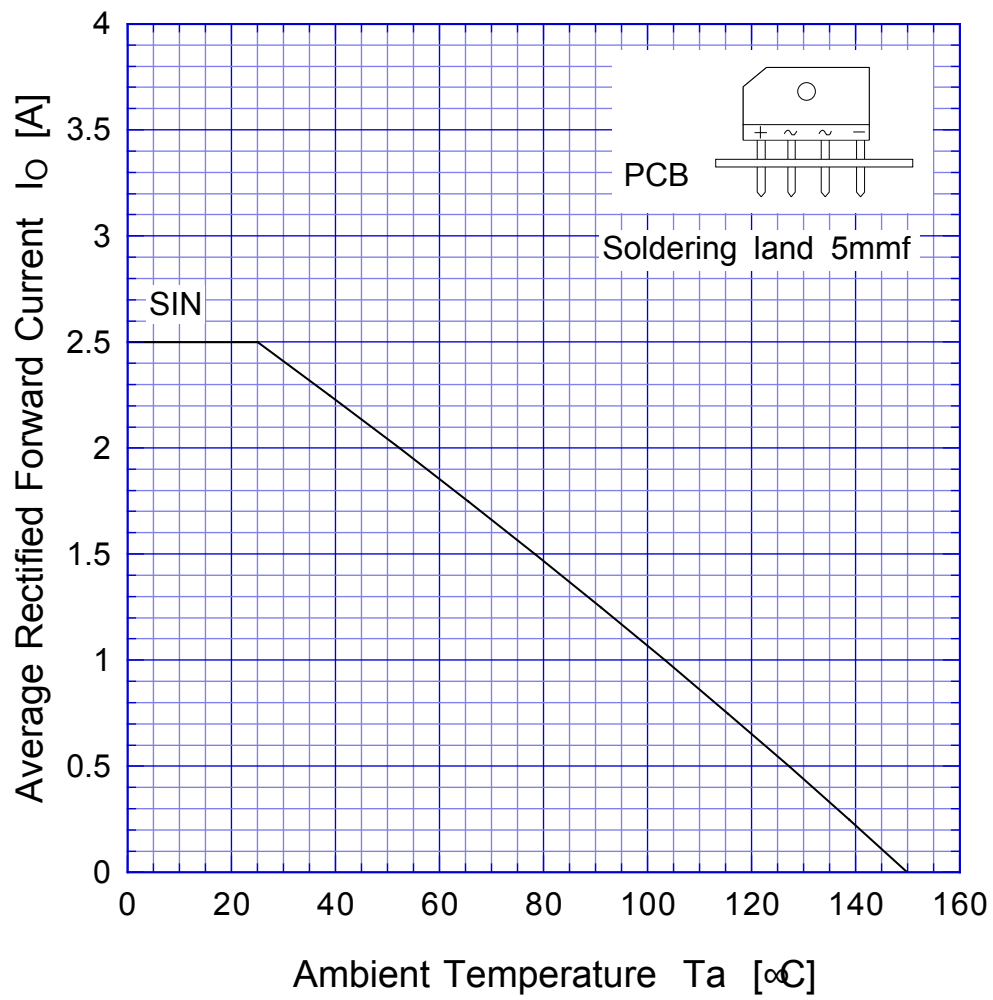
Derating Curve



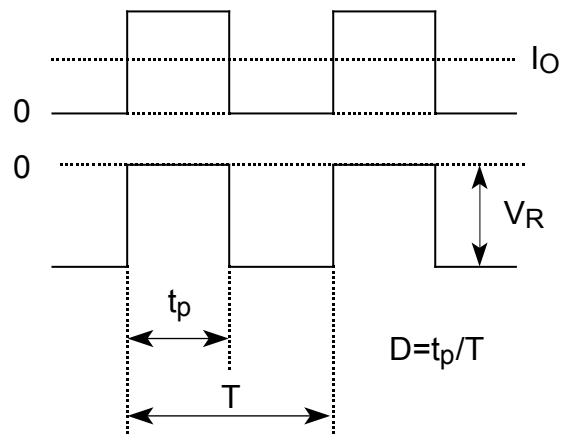
Sine wave
R-load
with heatsink

D4SB60L

Derating Curve



$V_R = 600V$



D4SB60L

Peak Surge Forward Capability

