

SHINDENGEN

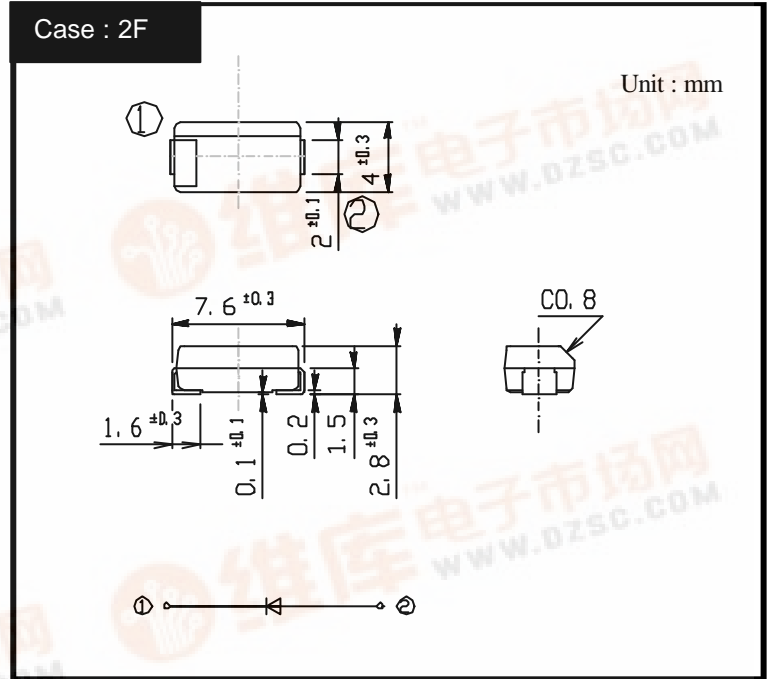
General Purpose Rectifiers

Single

D4F60

600V 4A

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified Tl=25)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load Tl=68	4	A
		50Hz sine wave, R-load Ta=25 On alumina substrate	1.85	
		50Hz sine wave, R-load Ta=25 On glass-epoxy substrate	1.3	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	200	A
Current squared time	I ² t	1ms t < 10ms	150	A ² s

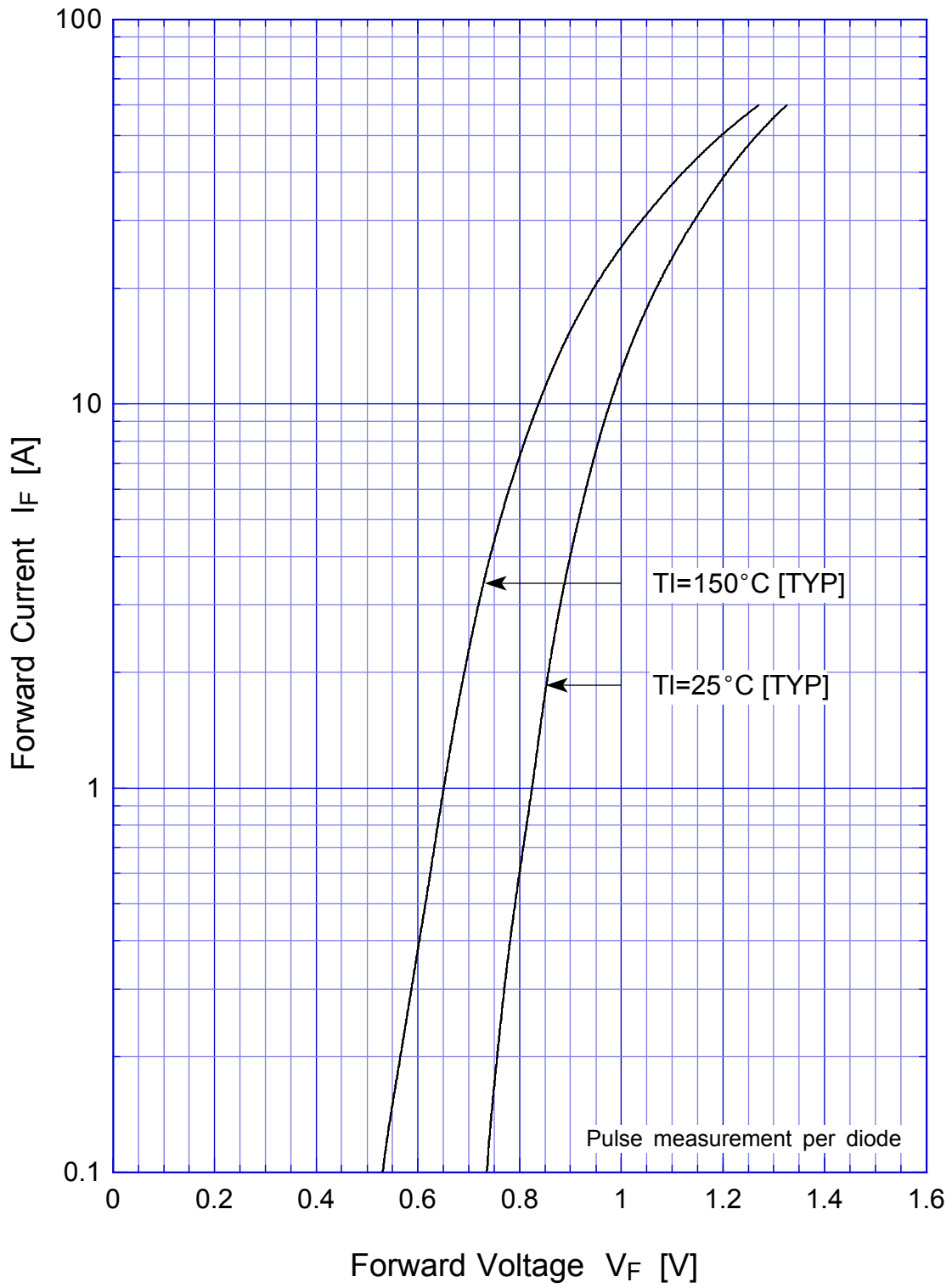
Electrical Characteristics (If not specified Tl=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =4A Pulse measurement	Max.0.95	V
Reverse Current	I _R	V _R =600V Pulse measurement	Max.10	μA
Thermal Resistance	j-l j-a	junction to lead	Max.23	/W
		junction to ambient, On alumina substrate	Max.80	
		junction to ambient, On glass-epoxy substrate	Max.115	



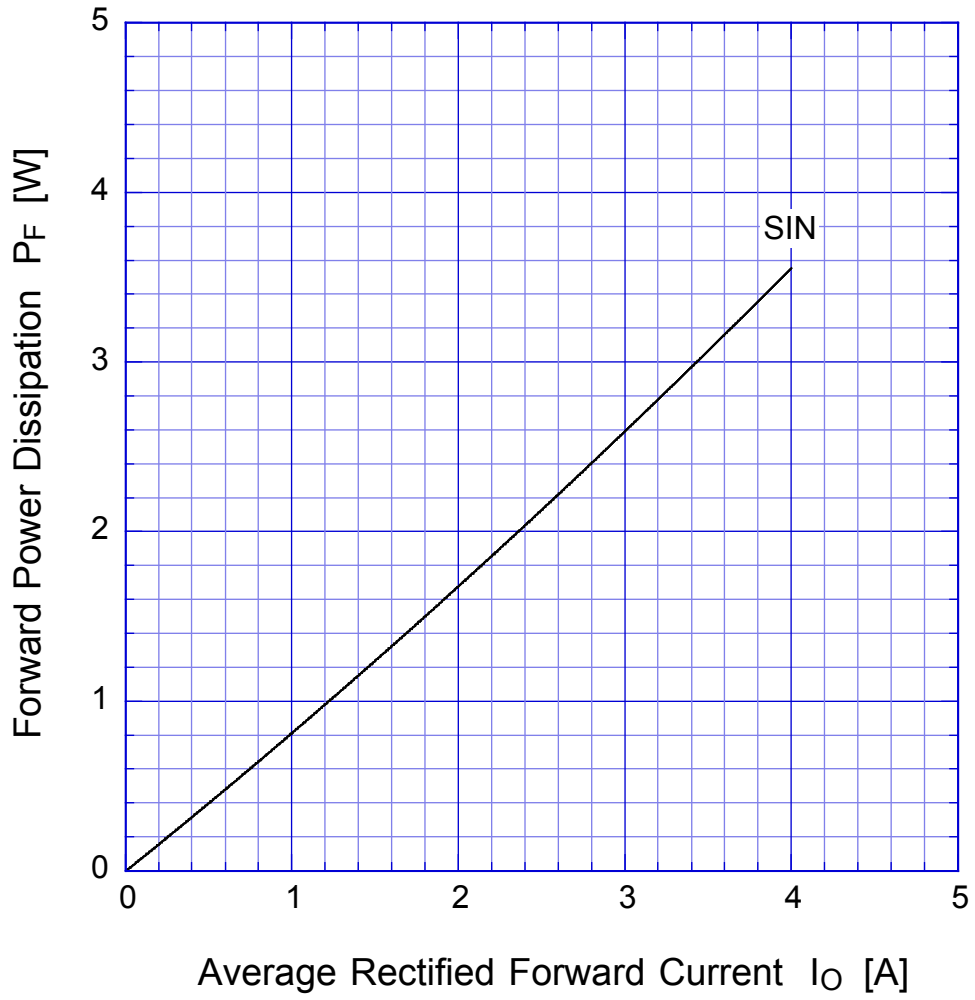
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Forward Voltage



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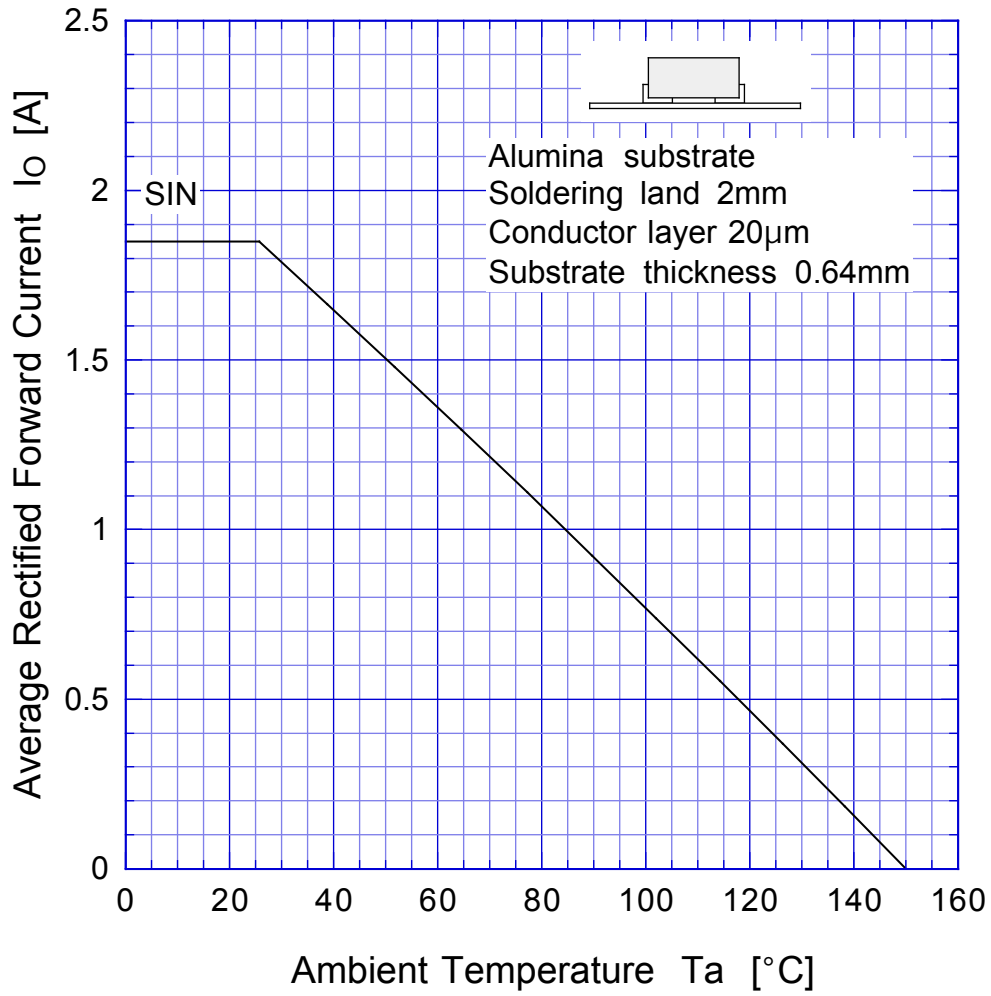
Forward Power Dissipation



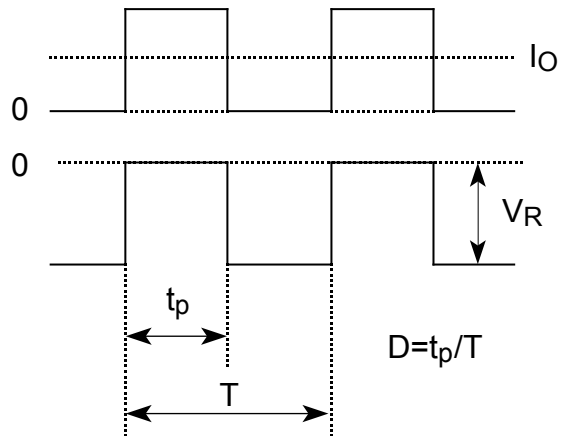
$T_j = 150^\circ\text{C}$
Sine wave

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Derating Curve

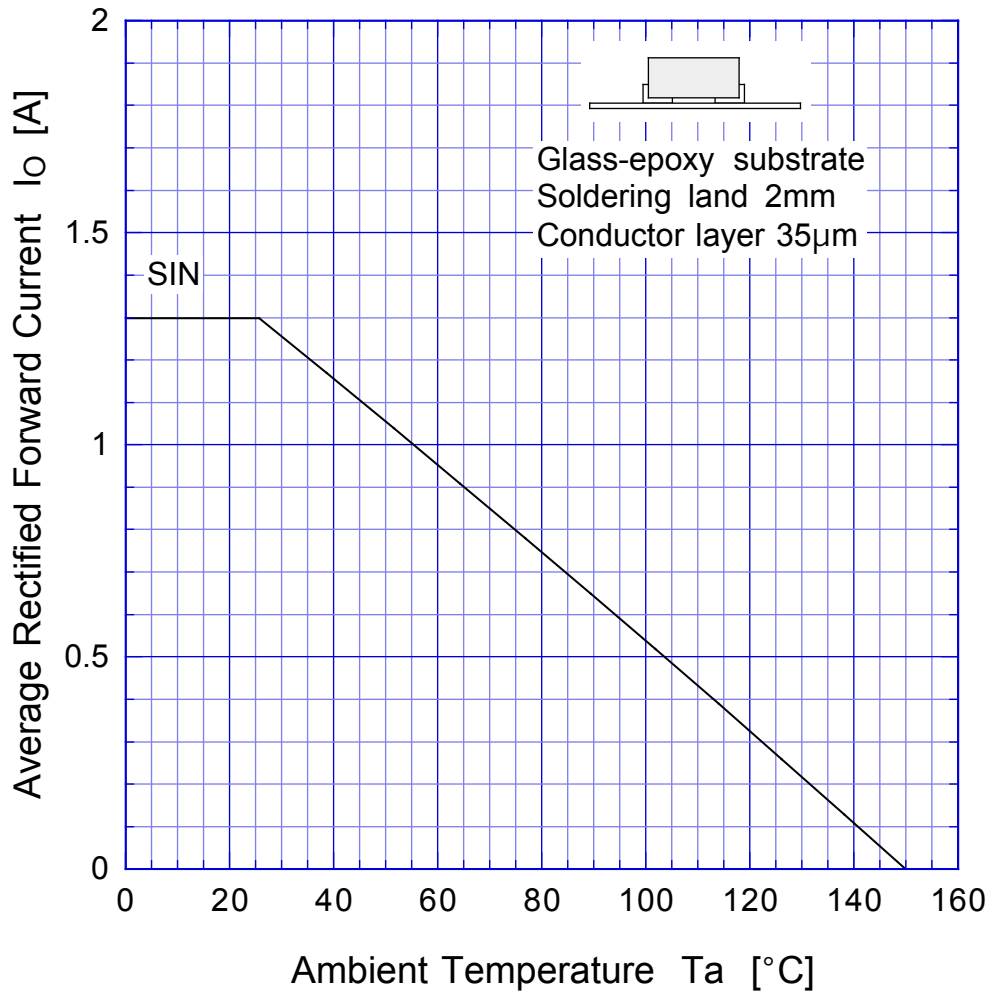


$$V_R = V_{RM}$$

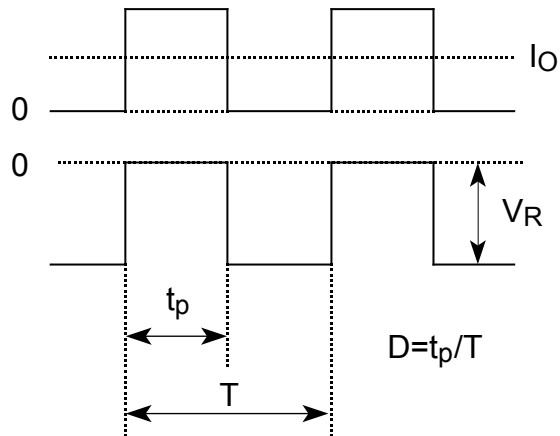


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Derating Curve

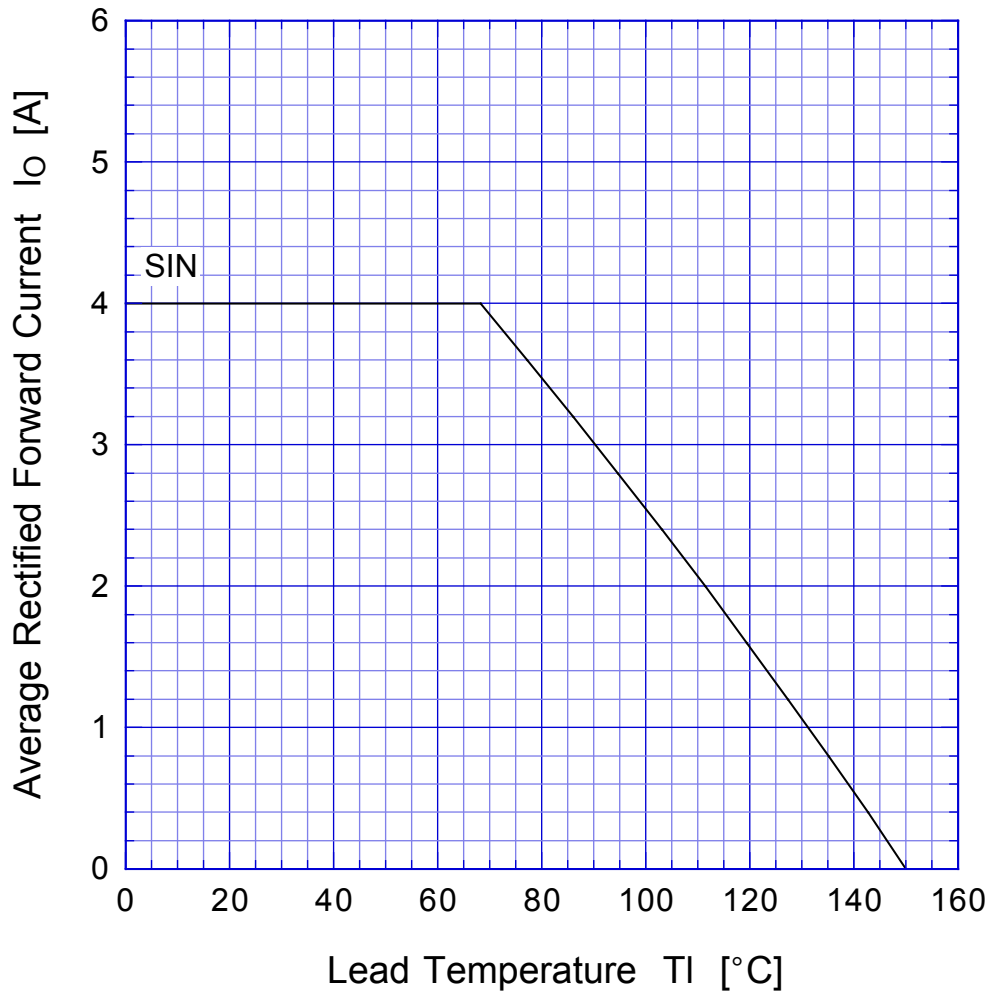


$$V_R = V_{RM}$$

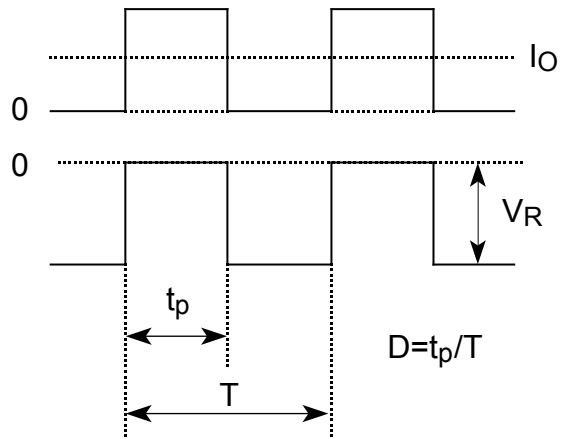


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Derating Curve



$$V_R = V_{RM}$$



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Peak Surge Forward Capability

