

SHINDENGEN

Super Fast Recovery Rectifiers

Single

D2L20U

200V 1.5A

FEATURES

- Low noise
- trr35ns
- Applicable to Automatic Insertion

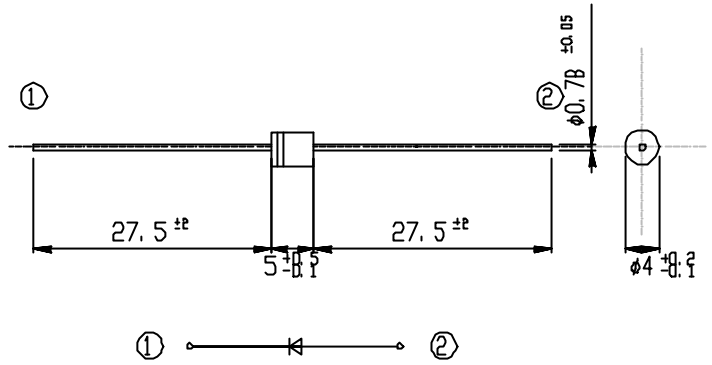
APPLICATION

- Switching power supply
- Free Wheel
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS

Case : AX078

(Unit : mm)



RATINGS

- Absolute Maximum Ratings (If not specified TI=25)

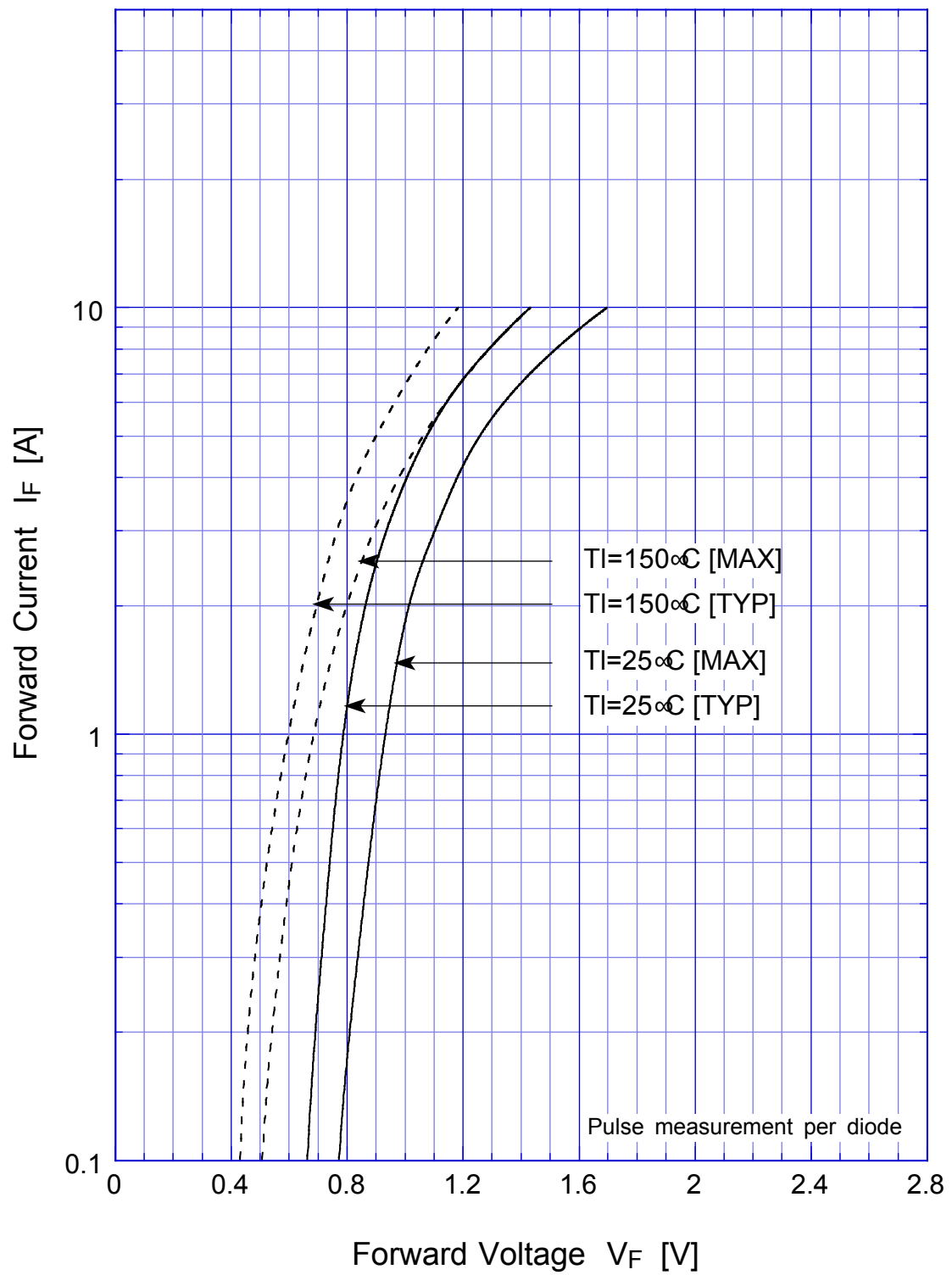
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Tj=125	1.5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, R-load, Ta=25	1.3	
		50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	40	A

- **Electrical Characteristics** (If not specified Tl=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=1.5A$, Pulse measurement	Max.0.98	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement	Max.10	μA
Reverse Recovery Time	t_{rr}	$I_F=0.5A$, $I_R=1A$	Max.35	ns
Thermal Resistance	θ_{jl}	junction to lead	Max.17	/W
	θ_{ja}	junction to ambient	Max.105	

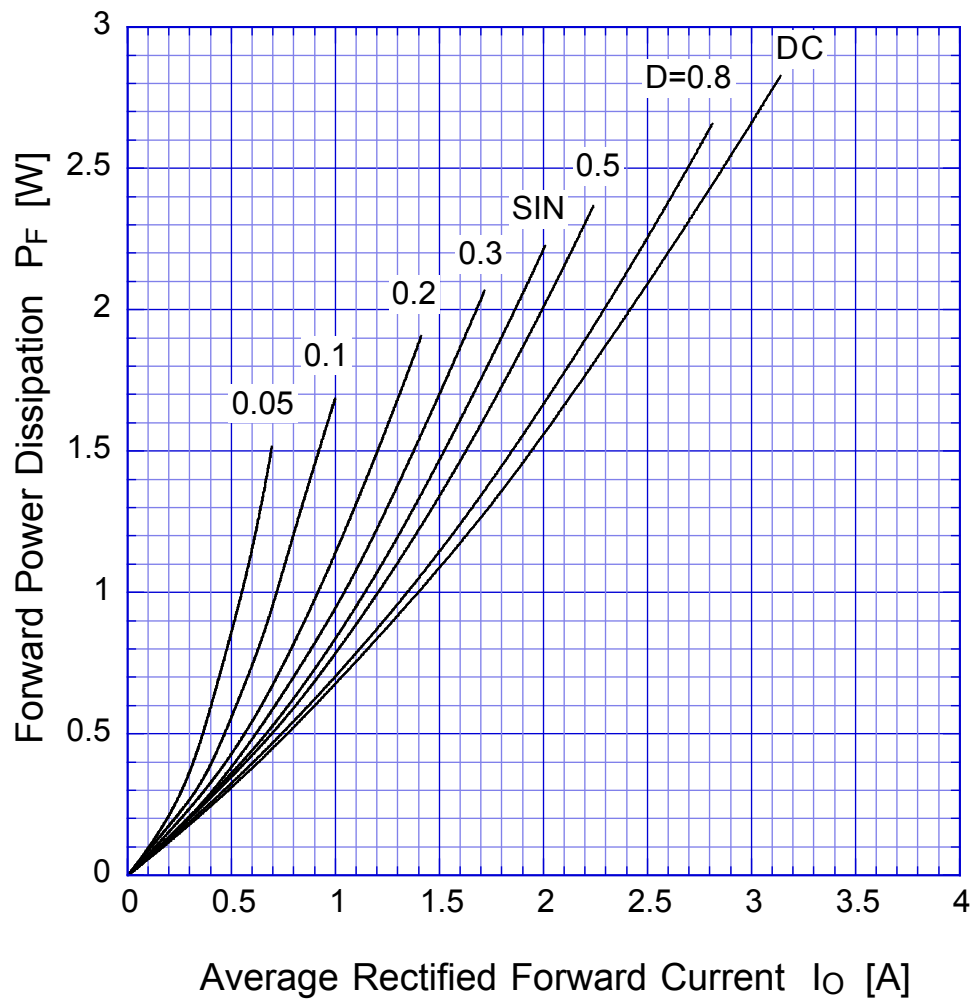
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Forward Voltage



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Forward Power Dissipation

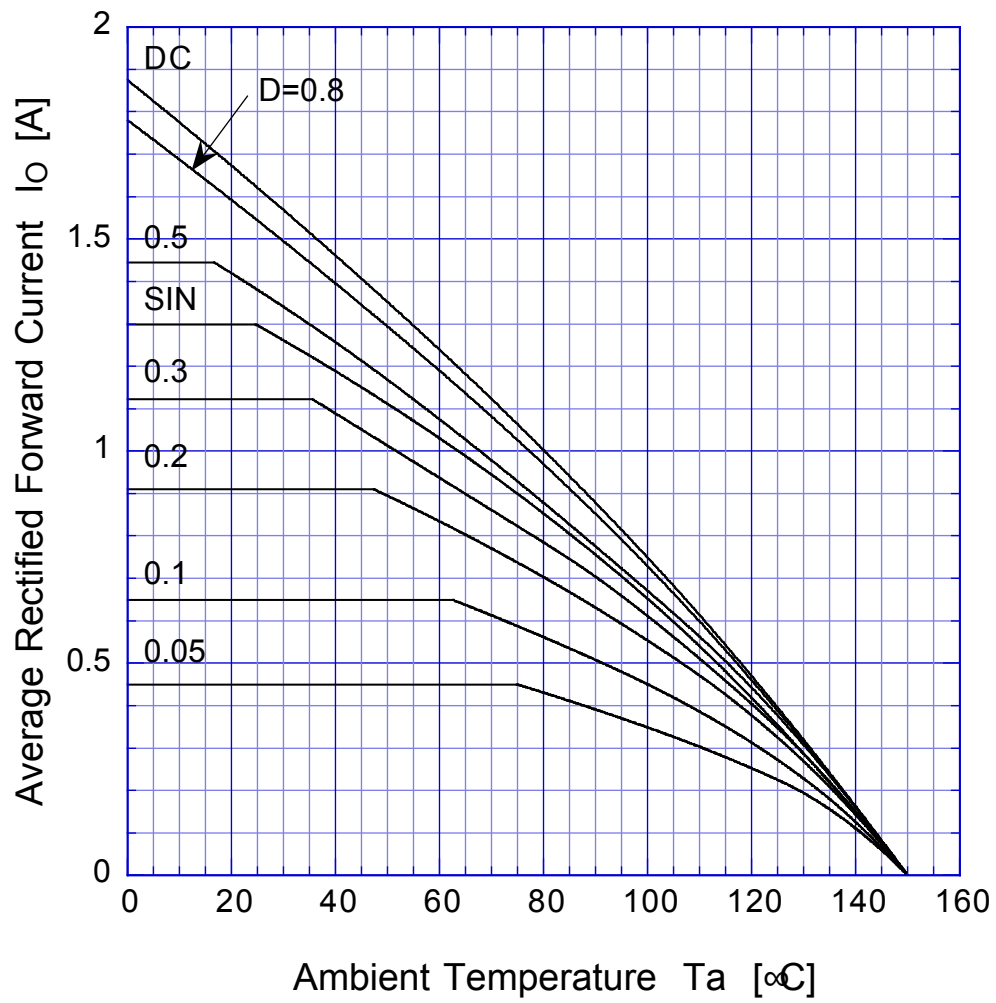


$T_j = T_{jmax}$

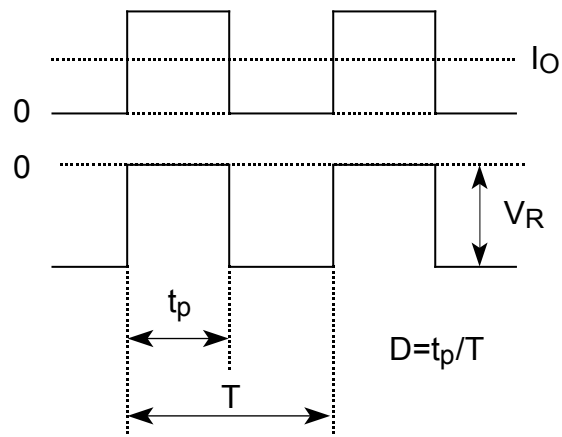


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Derating Curve

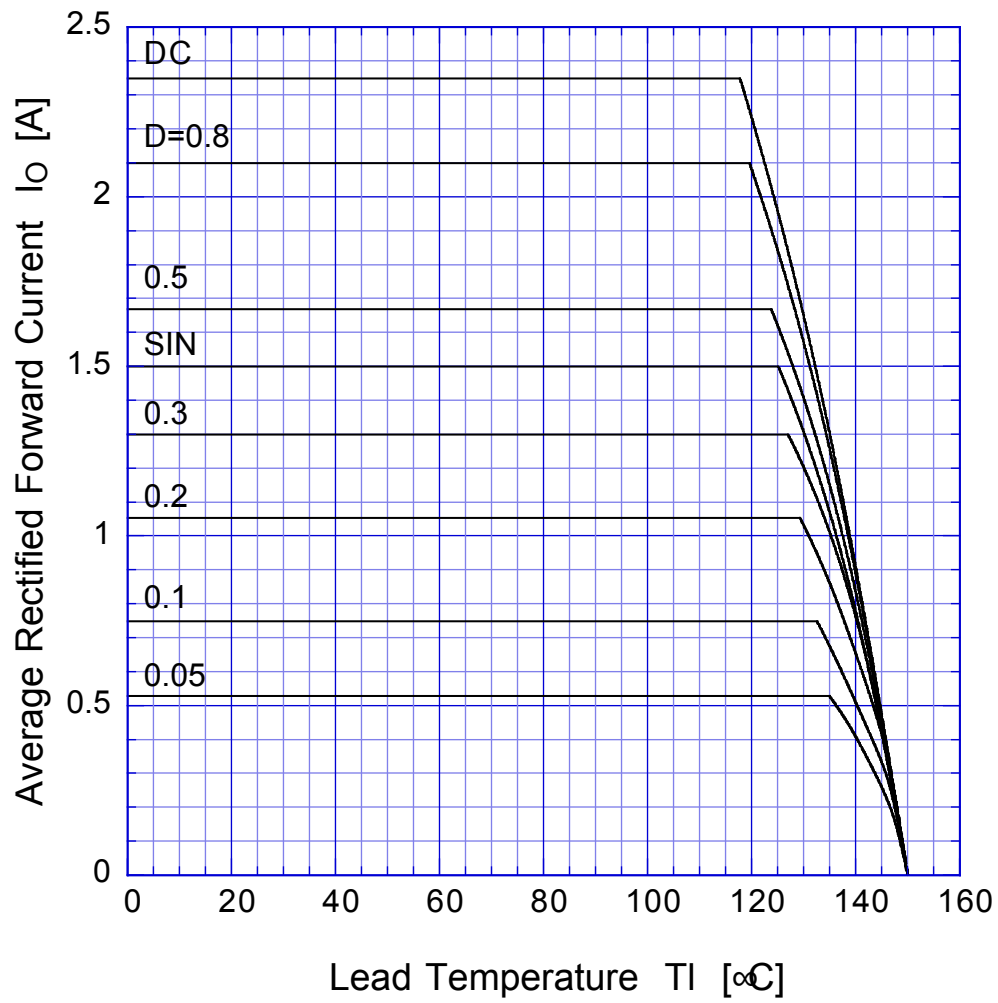


$$V_R = V_{RM}$$

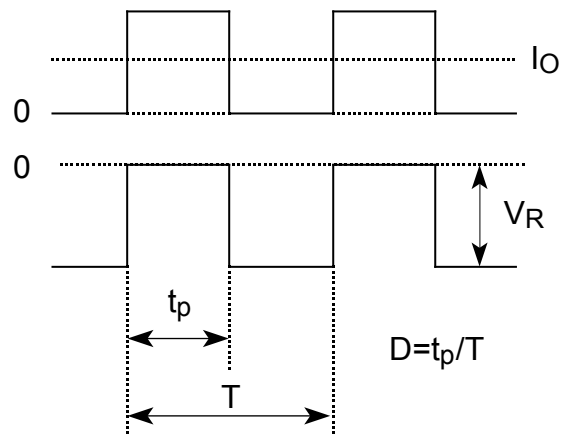


D2L20U

Derating Curve

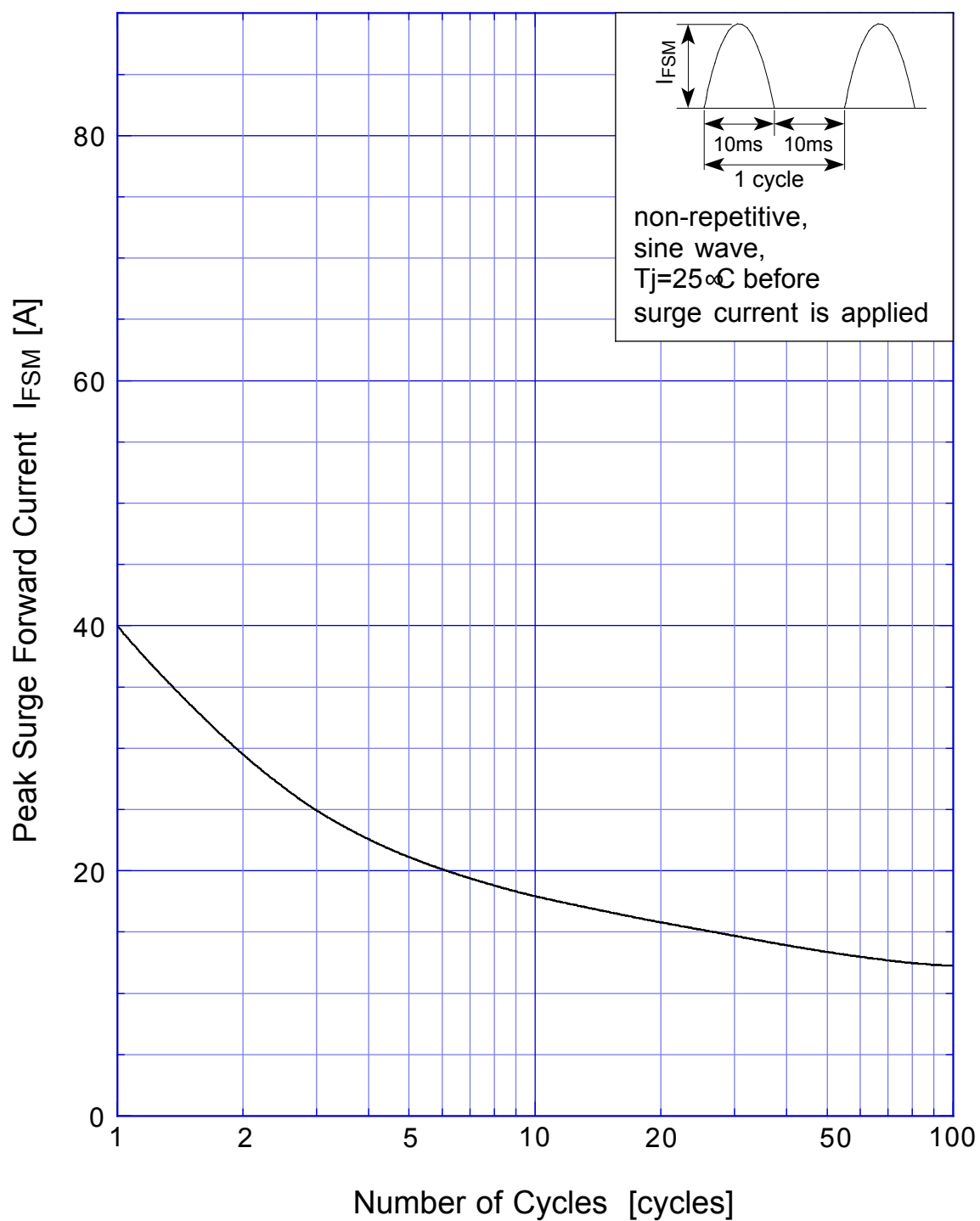


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



D2L20U Junction Capacitance

