

# SHINDENGEN

## Super Fast Recovery Rectifiers

Single

# D1FL20U

## 200V 1.1A

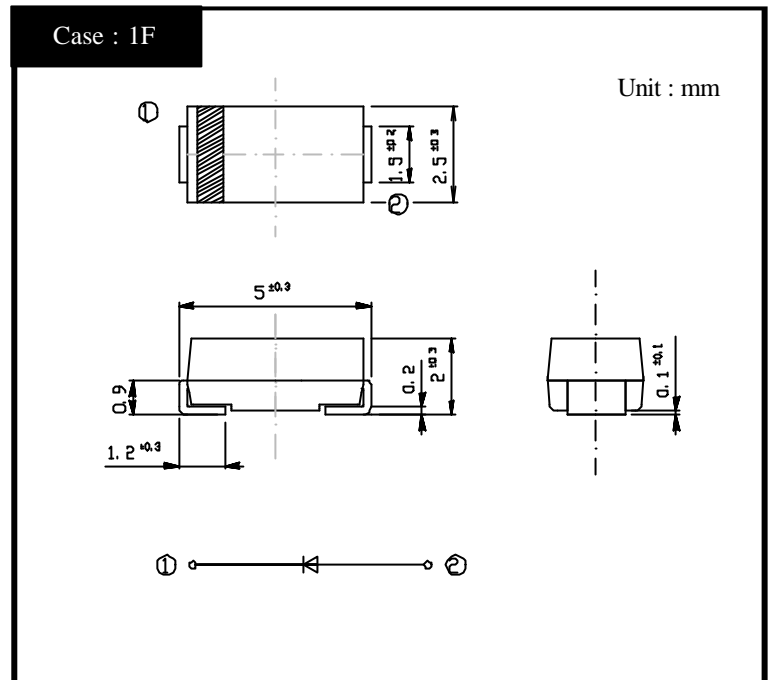
### FEATURES

Small SMT  
Low noise  
trr35ns

### APPLICATION

Switching power supply  
DC/DC converter  
Free Wheel  
Home Appliances, Office Equipment  
Telecommunication, Factory Automation

### OUTLINE DIMENSIONS



### RATINGS

Absolute Maximum Ratings (If not specified  $T_I=25$  )

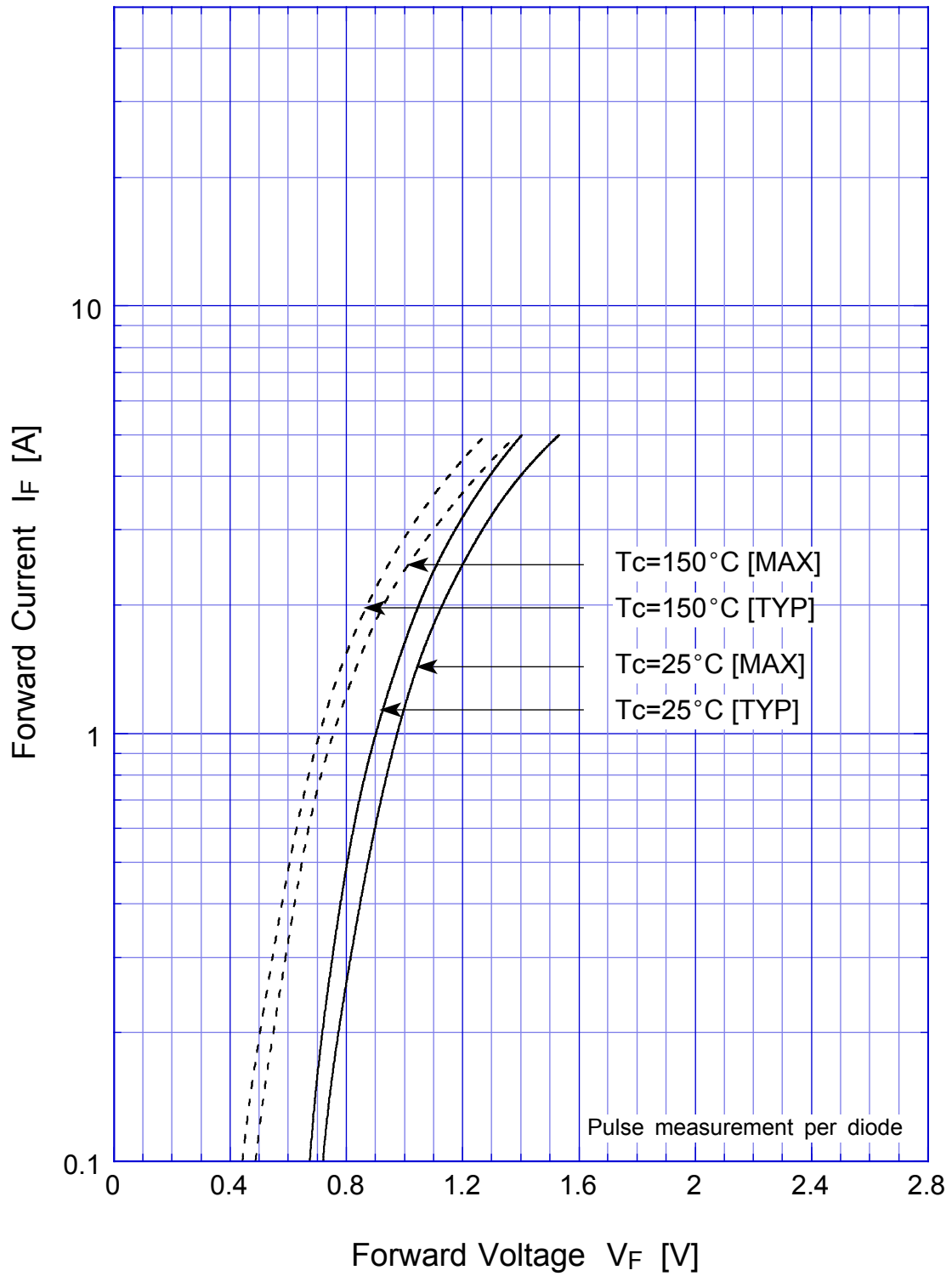
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-55 ~ 150	
Operating Junction Temperature	$T_j$		150	
Maximum Reverse Voltage	$V_{RM}$		200	V
Average Rectified Forward Current	$I_o$	50Hz sine wave, R-load, $T_a=25$ On alumina substrate	1.1	A
		50Hz sine wave, R-load, $T_a=25$ On glass-epoxy substrate	0.84	
Peak Surge Forward Current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25$	20	A

Electrical Characteristics (If not specified  $T_I=25$  )

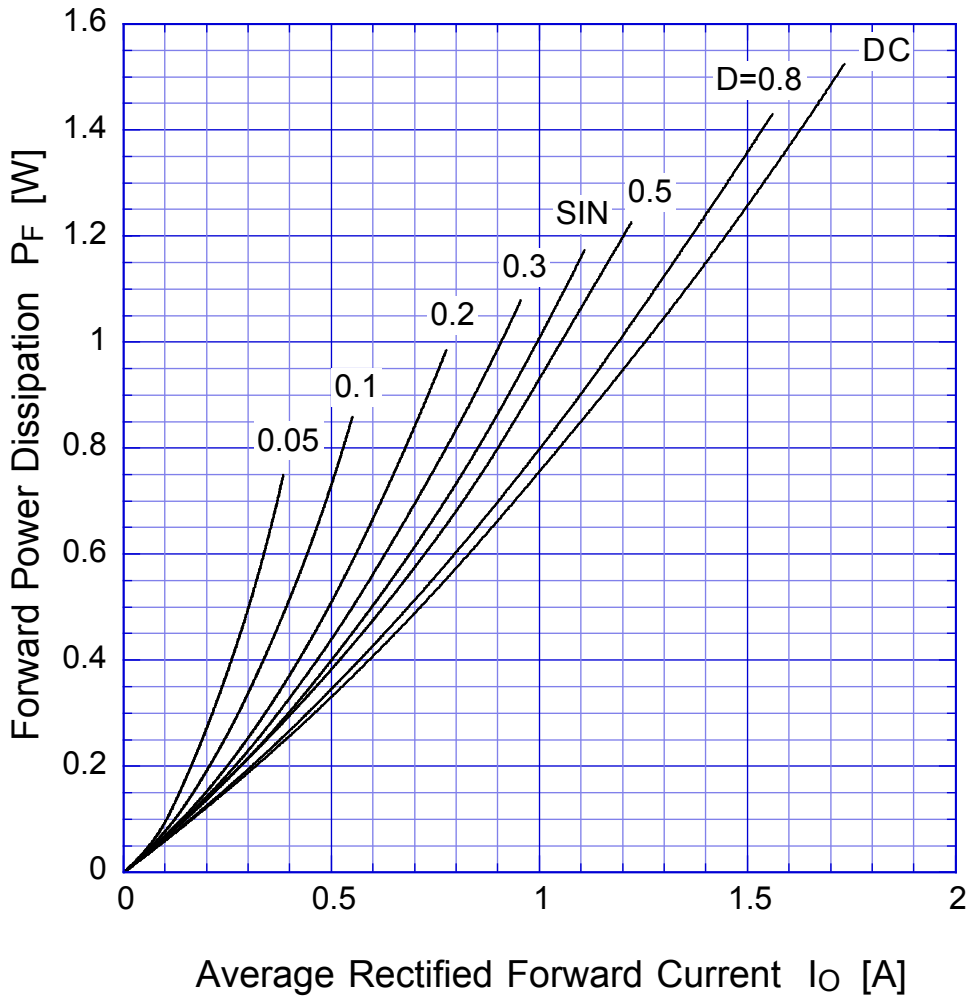
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	$V_F$	$I_F=1.1A$ , Pulse measurement	Max.0.98	V
Reverse Current	$I_R$	$V_R=V_{RM}$ , Pulse measurement	Max.10	$\mu A$
Reverse Recovery Time	trr	$I_F=0.5A$ , $I_R=1A$	Max.35	ns
Thermal Resistance	jl	junction to lead	Max.23	/W
	ja	junction to ambient, On alumina substrate	Max.108	
		junction to ambient, On glass-epoxy substrate	Max.157	

# D1FL20U

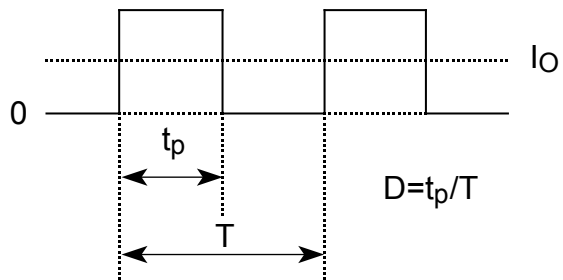
## Forward Voltage



# D1FL20U Forward Power Dissipation

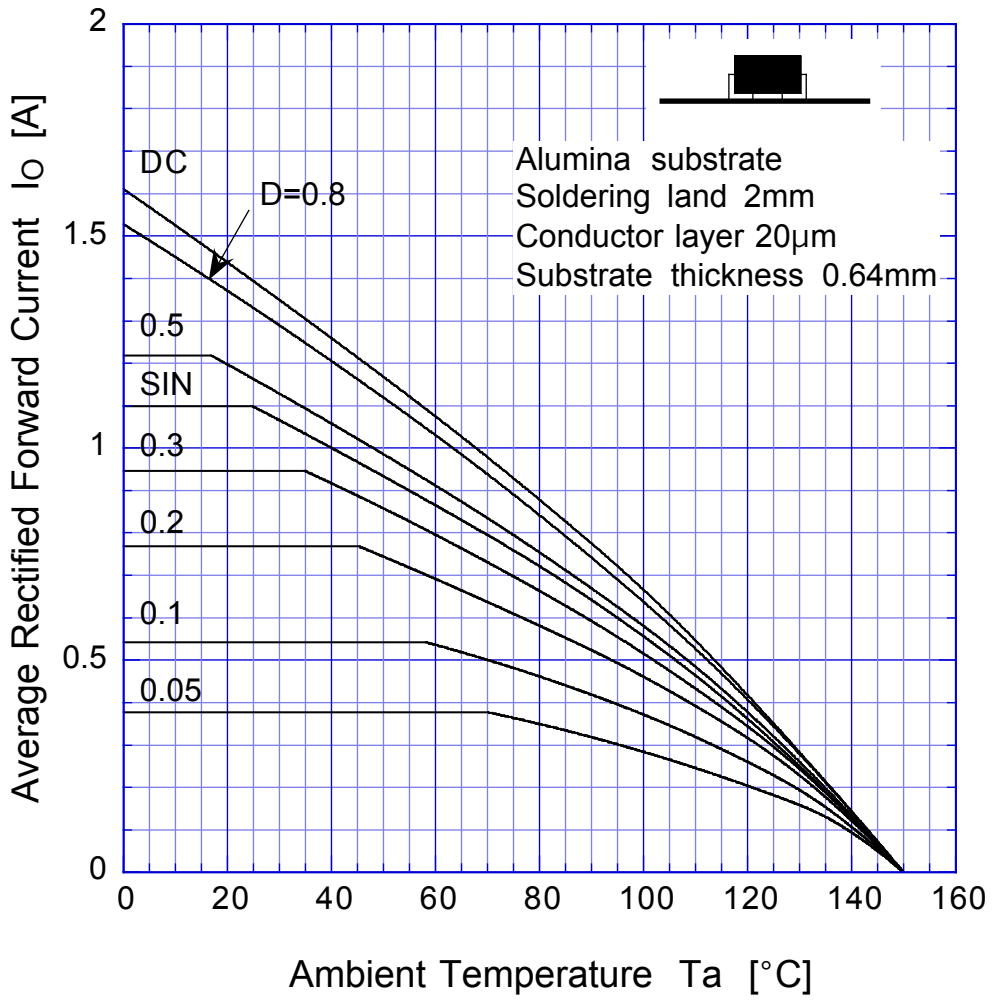


$T_j = T_{jmax}$



# D1FL20U

# Derating Curve

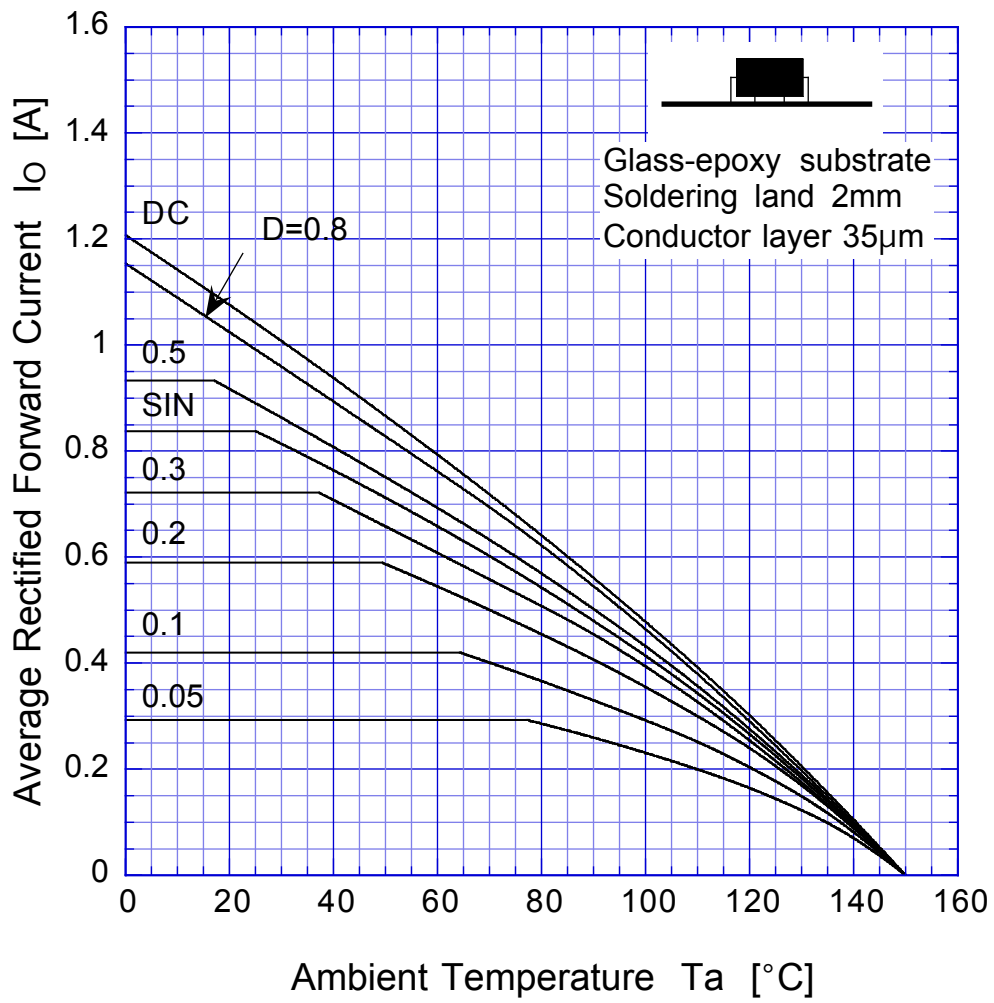


$$V_R = V_{RM}$$



# D1FL20U

# Derating Curve

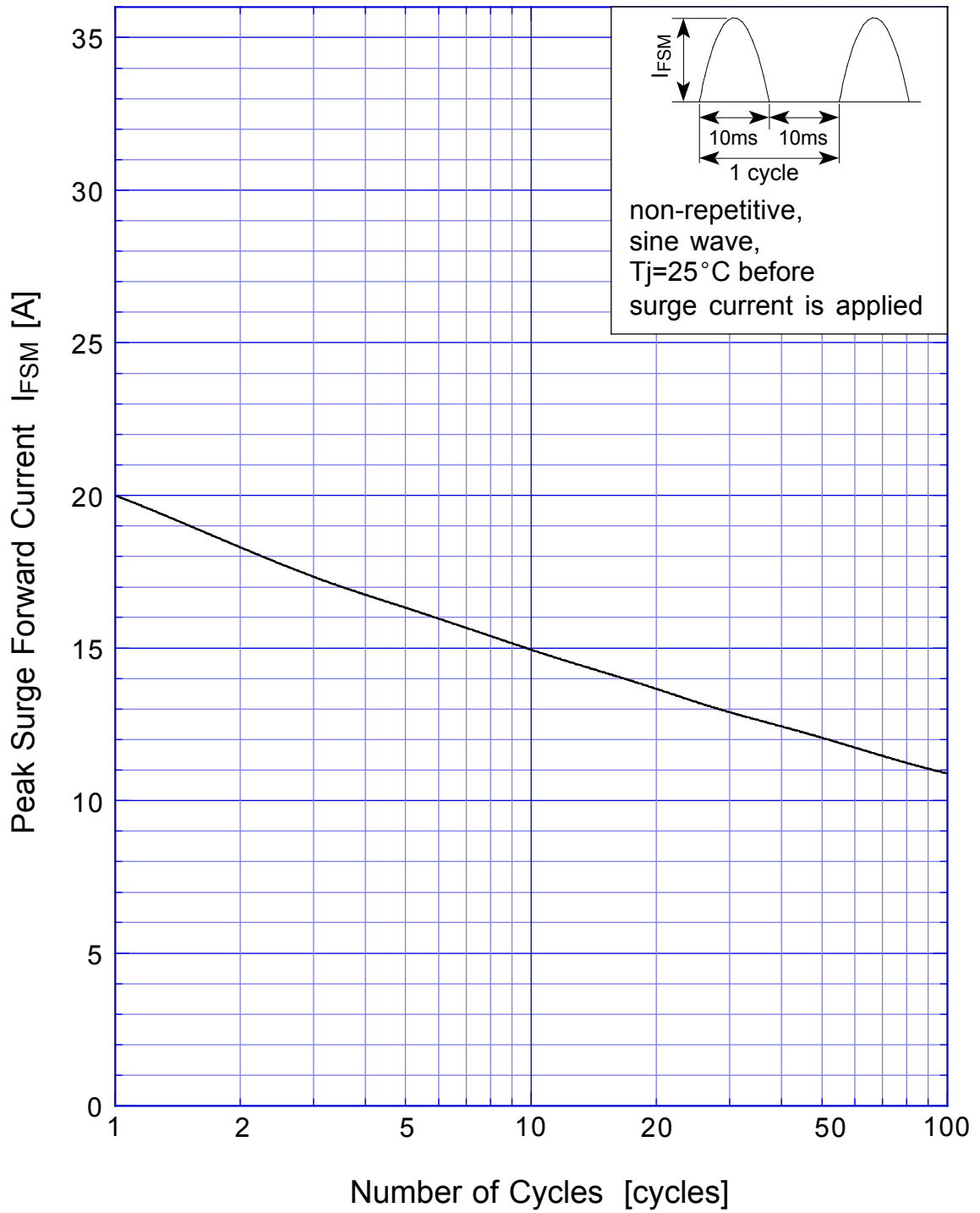


$$V_R = V_{RM}$$



# D1FL20U

## Peak Surge Forward Capability



# D1FL20U Junction Capacitance

