

# SHINDENGEN

## Schottky Rectifiers (SBD)

Single

# D2S6M

## 60V 2A

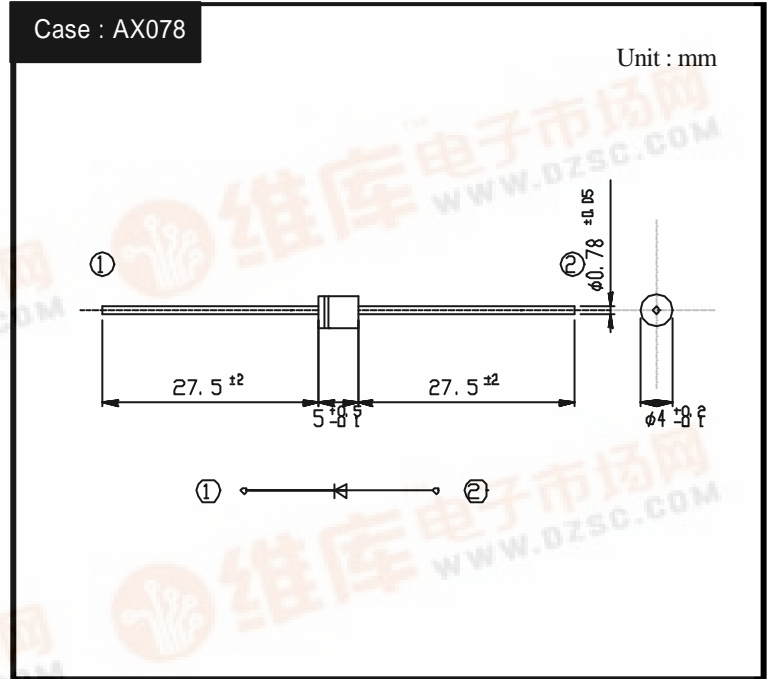
### FEATURES

- Tj150
- P<sub>RRSM</sub> avalanche guaranteed
- 0.8 lead

### APPLICATION

- Switching power supply
- DC/DC converter
- Home Appliances, Office Equipment
- Telecommunication

### OUTLINE DIMENSIONS



### 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 <sub>RM</sub>		60	V
Repetitive Peak Surge Reverse Voltage	V <sub>RRSM</sub>	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	I <sub>o</sub>	50Hz sine wave, R-load With heatsink Tl=119	2.0	A
		50Hz sine wave, R-load Without heatsink Ta=25	1.2	
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	60	A
Repetitive Peak Surge Reverse Power	P <sub>RRSM</sub>	Pulse width 10 μs, Tj=25	330	W

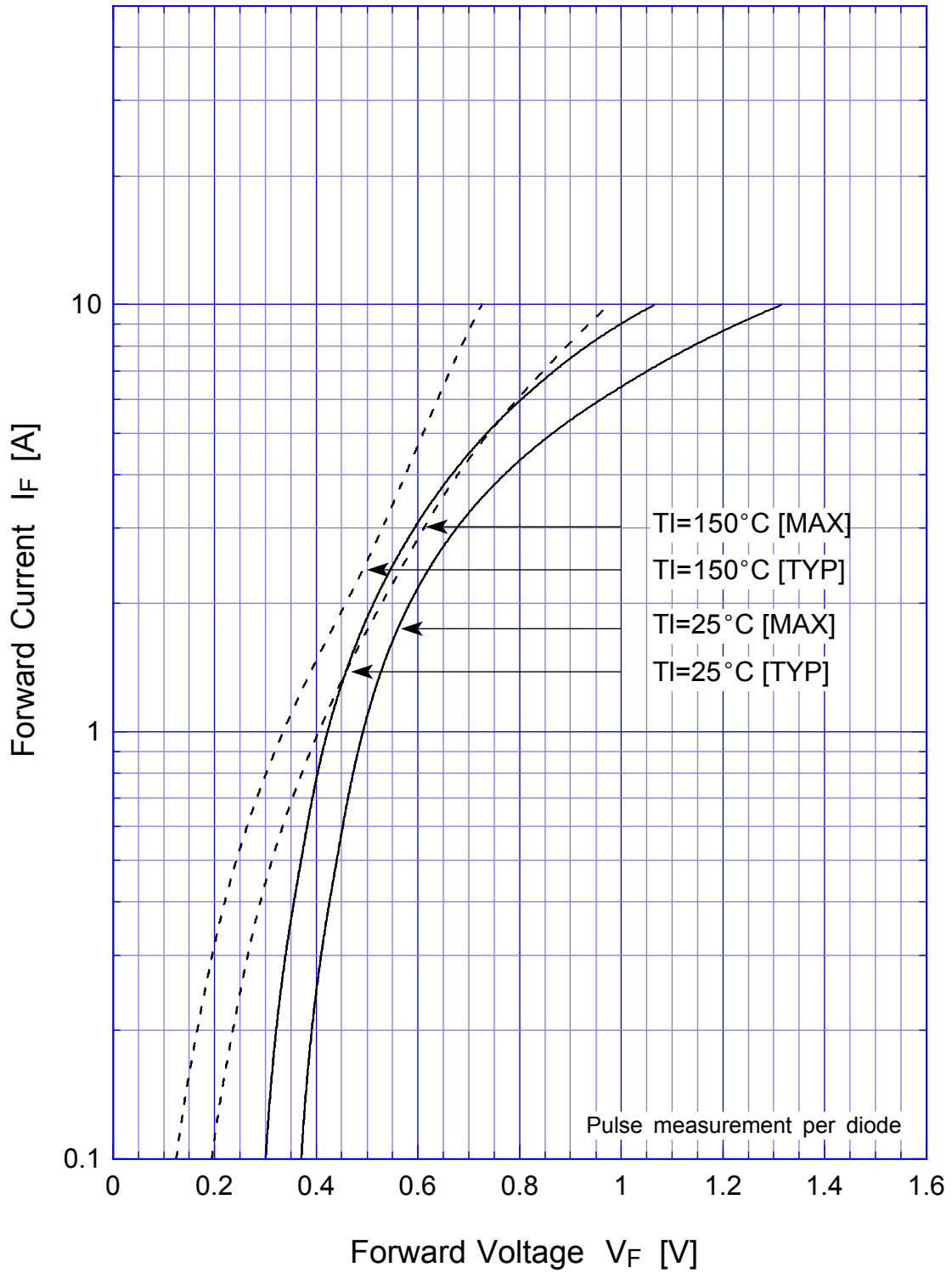
Electrical Characteristics (If not specified Tl=25 )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =2A, Pulse measurement	Max.0.58	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement	Max.2	mA
Junction Capacitance	C <sub>j</sub>	f=1MHz, V <sub>R</sub> =10V	Typ.120	pF
Thermal Resistance	j-l	junction to lead	Max.17	/W
	j-a	junction to ambient	Max.105	

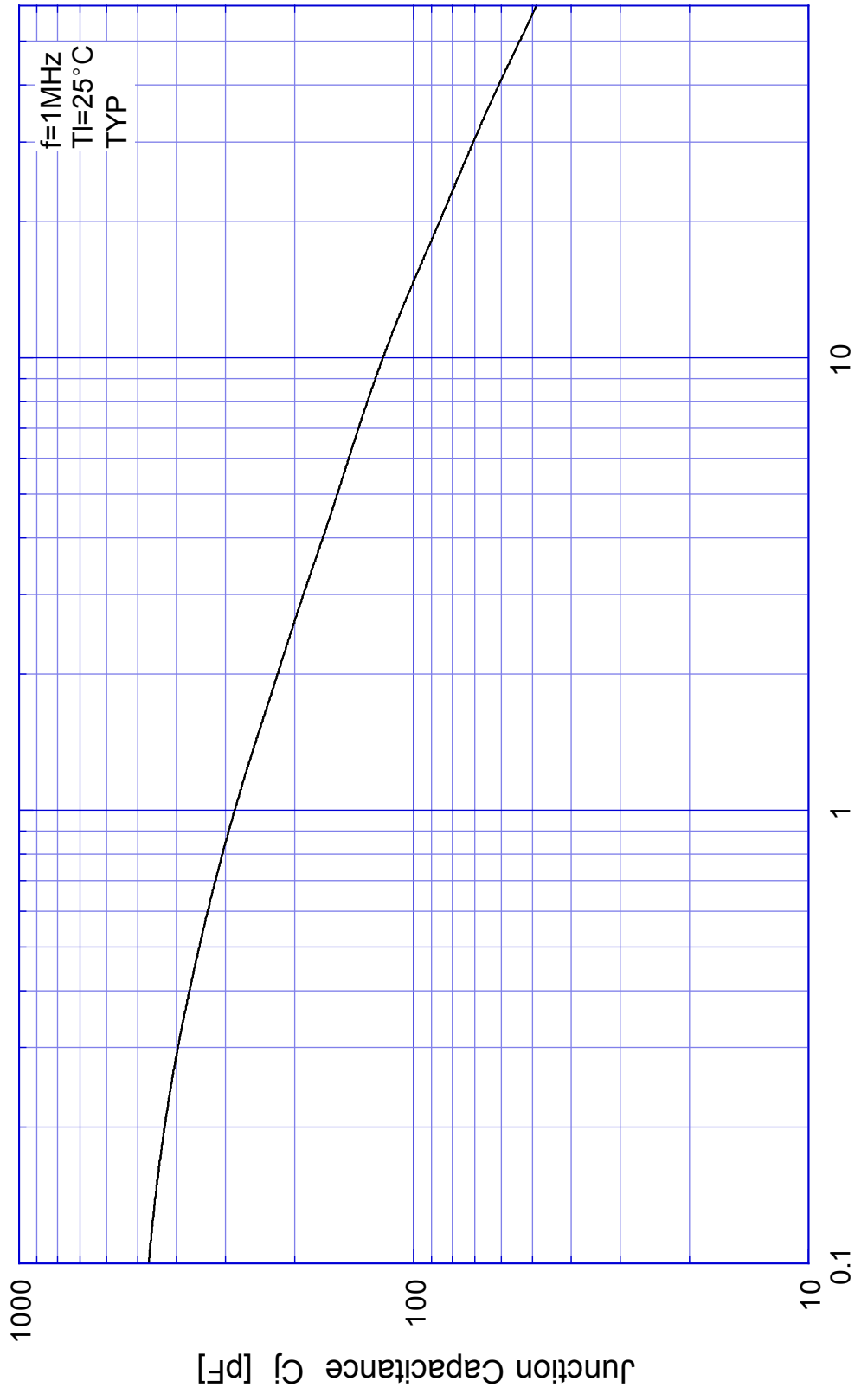


# D2S6M

## Forward Voltage

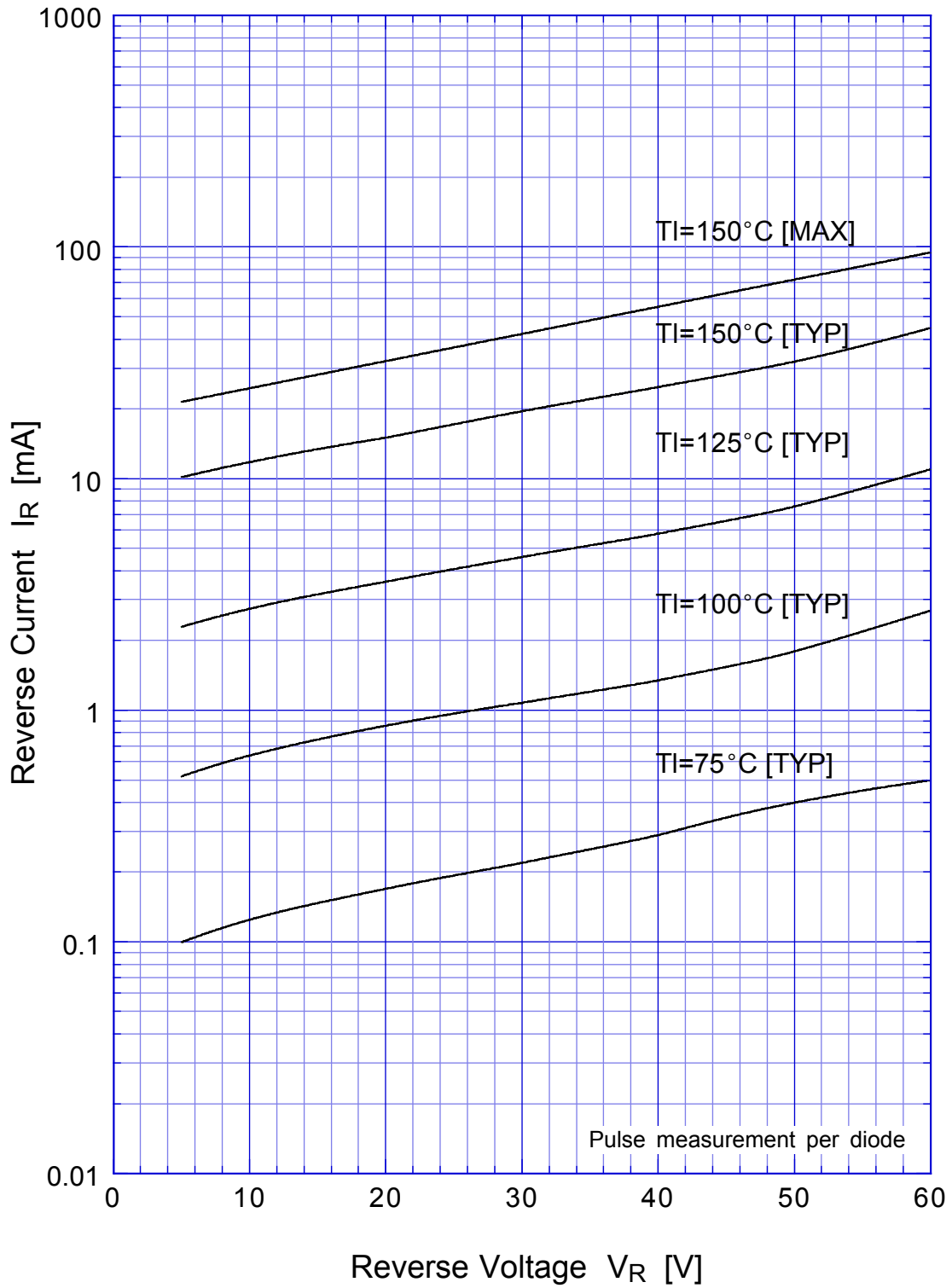


# D2S6M Junction Capacitance



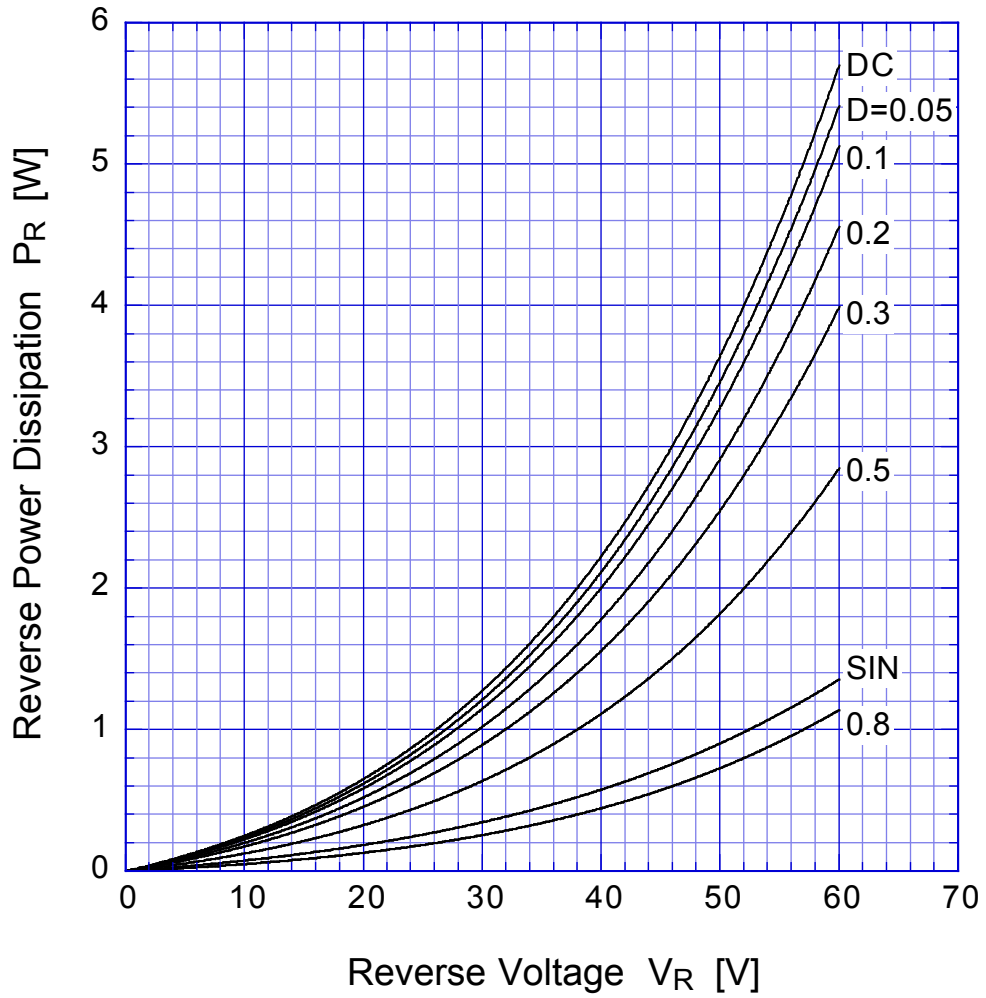
# D2S6M

## Reverse Current

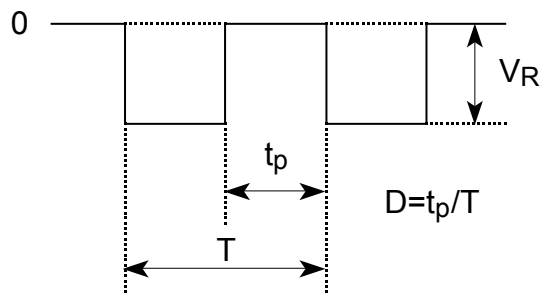


# D2S6M

## Reverse Power Dissipation

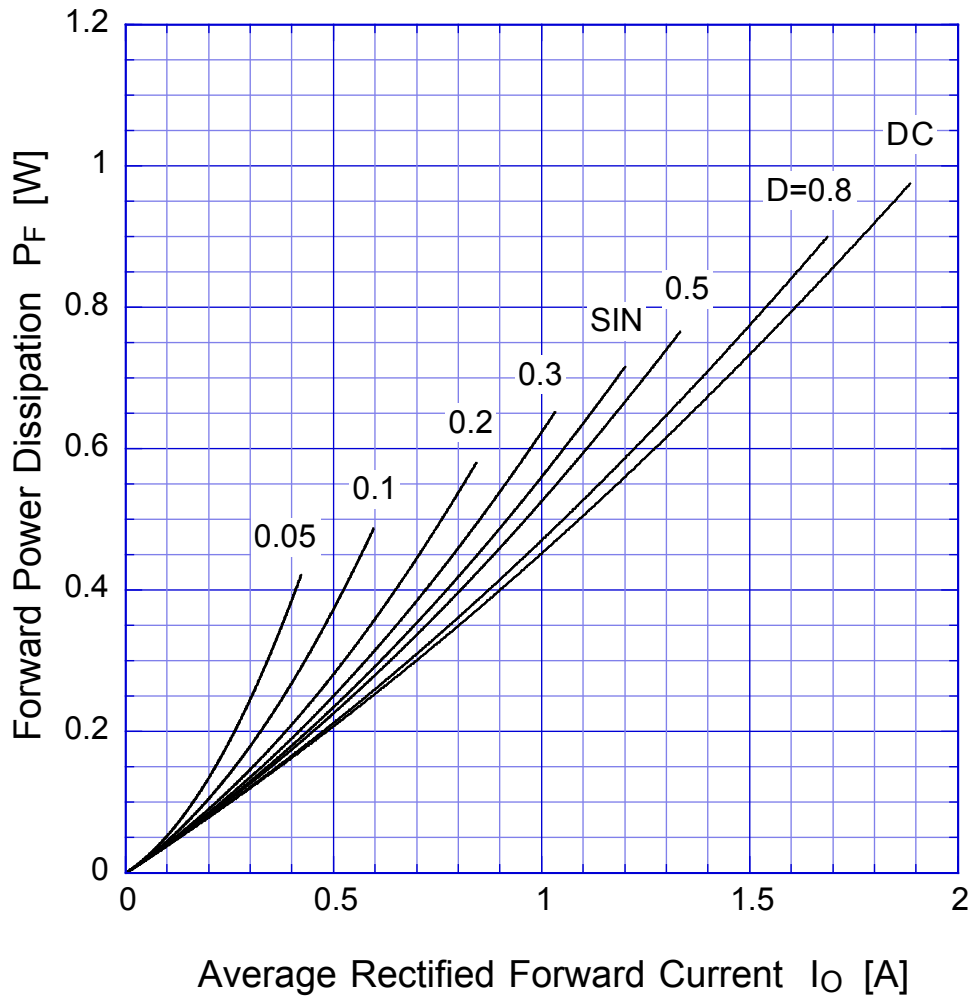


$T_j = 150^\circ\text{C}$

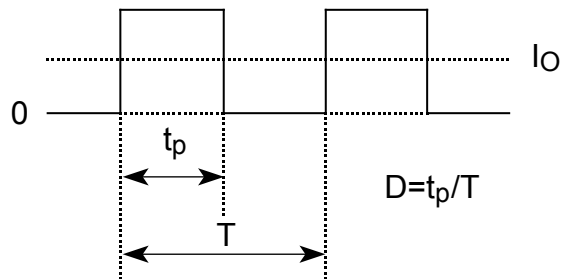


D2S6M

Forward Power Dissipation

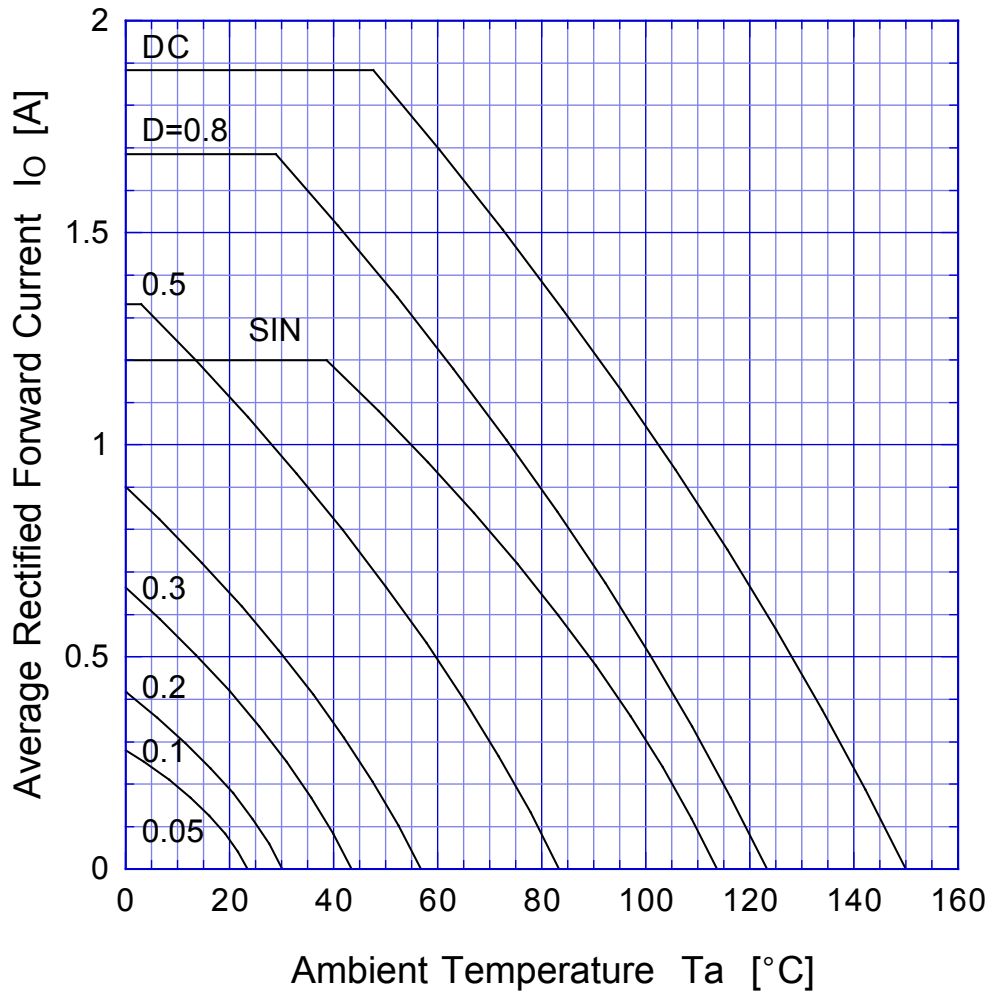


$T_j = 150^\circ\text{C}$

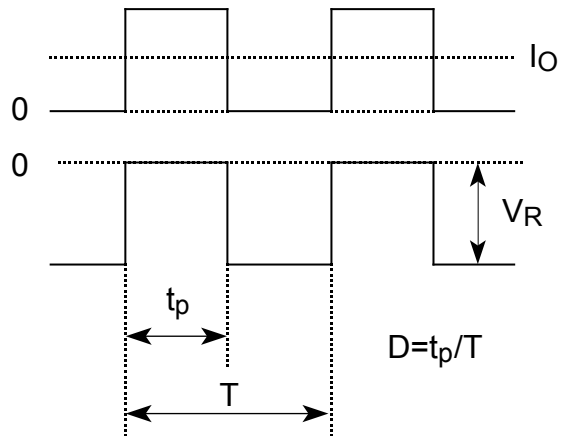


# D2S6M

# Derating Curve

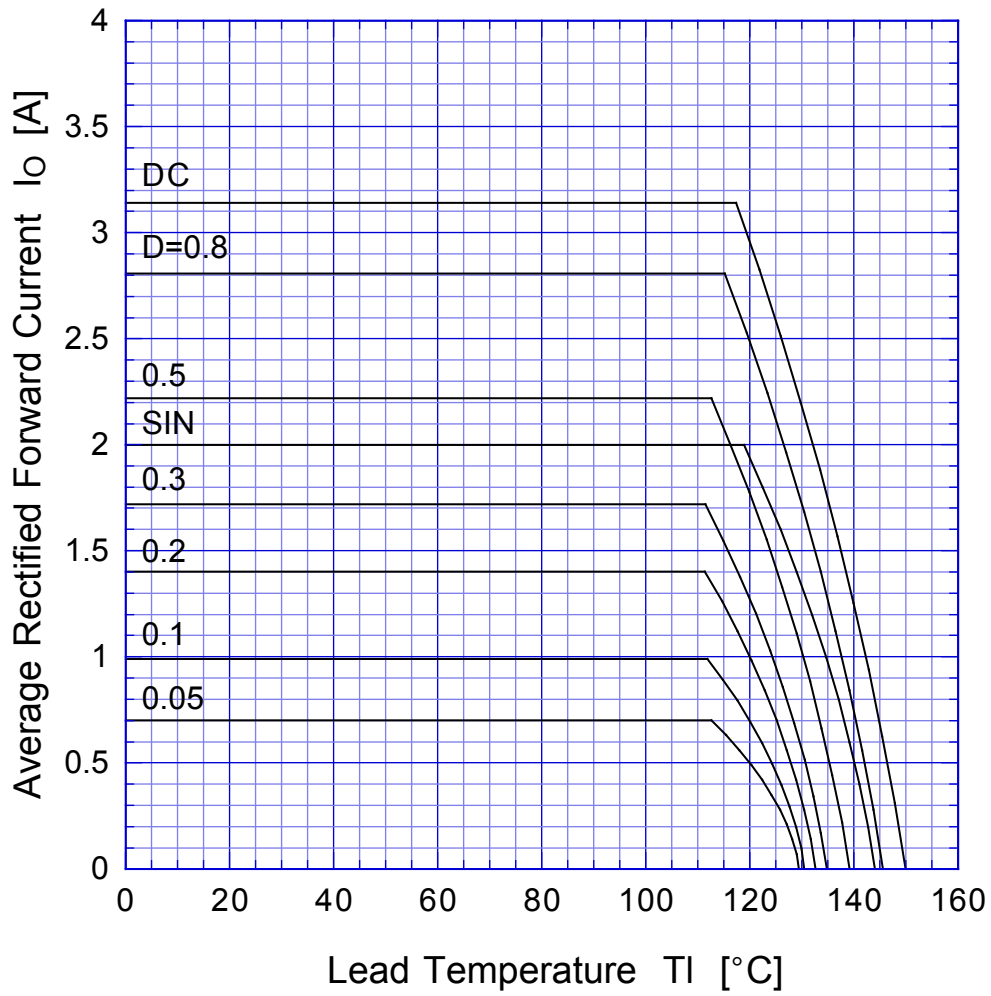


$V_R = 30V$

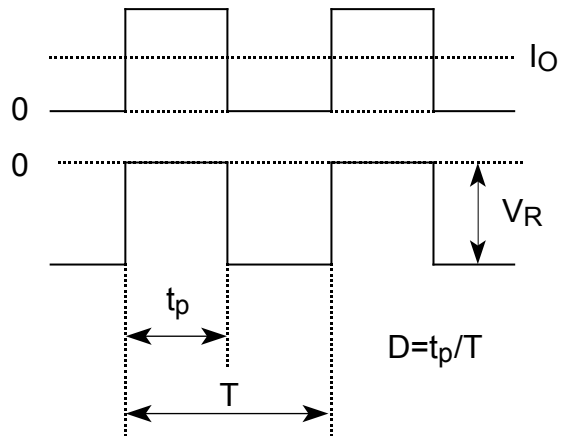


# D2S6M

# Derating Curve



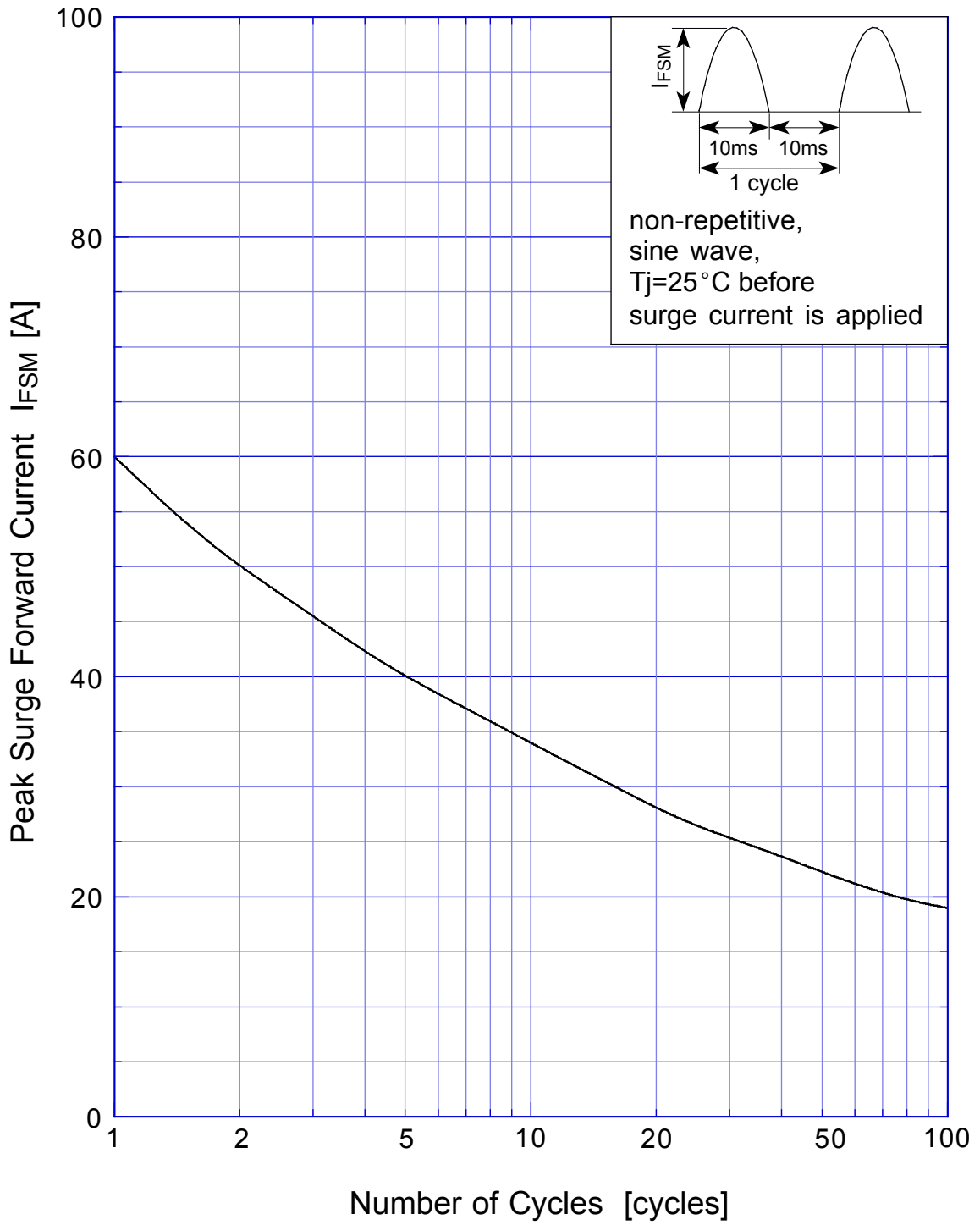
$V_R = 30V$



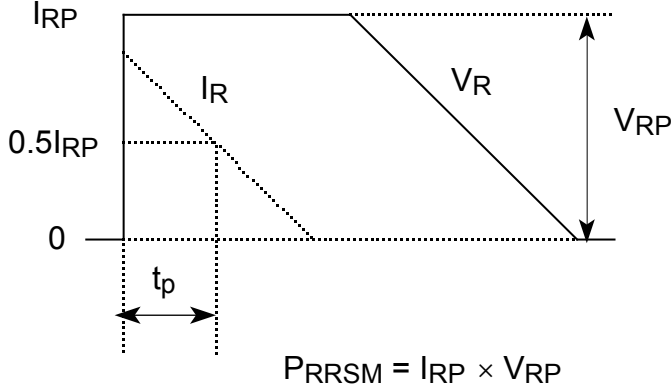
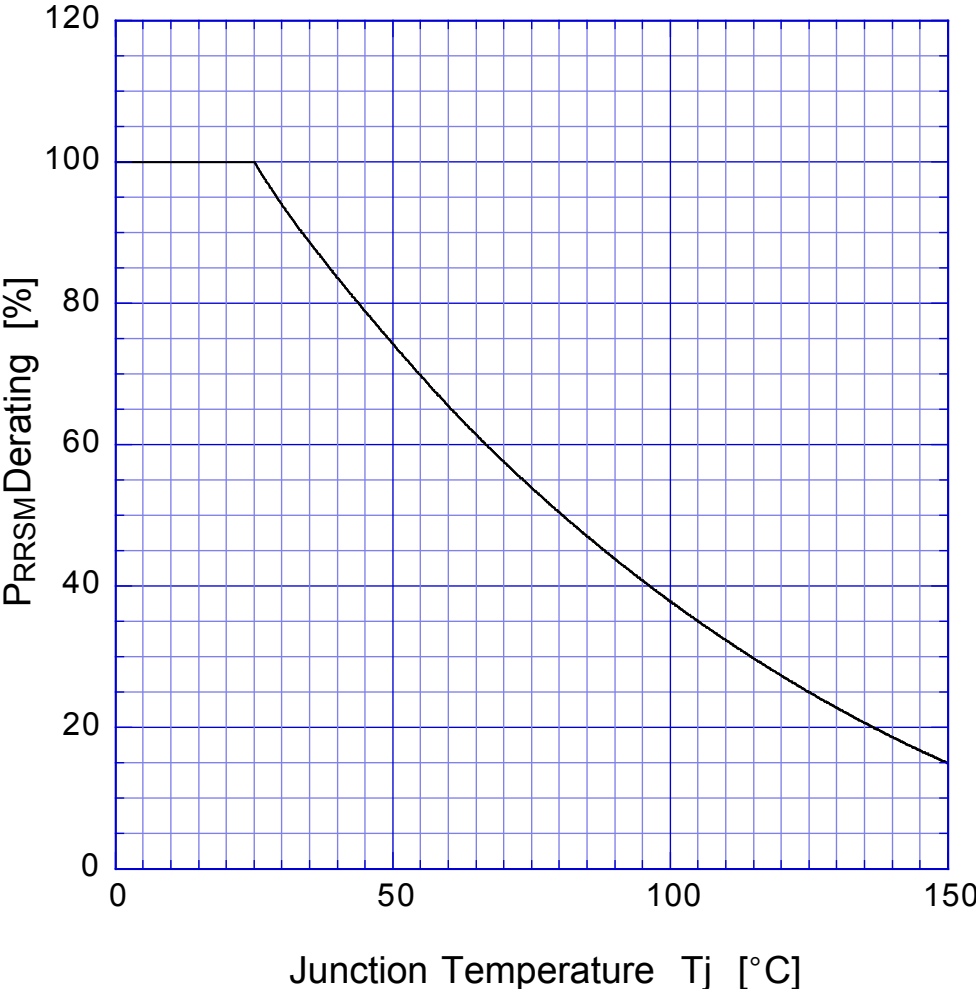


# D2S6M

## Peak Surge Forward Capability



# SBD Repetitive Surge Reverse Power Derating Curve



# SBD

## Repetitive Surge Reverse Power Capability

