

# SHINDENGEN

## Schottky Rectifiers (SBD)

## SBD Bridges

# D4SBS6

## 60V 4A

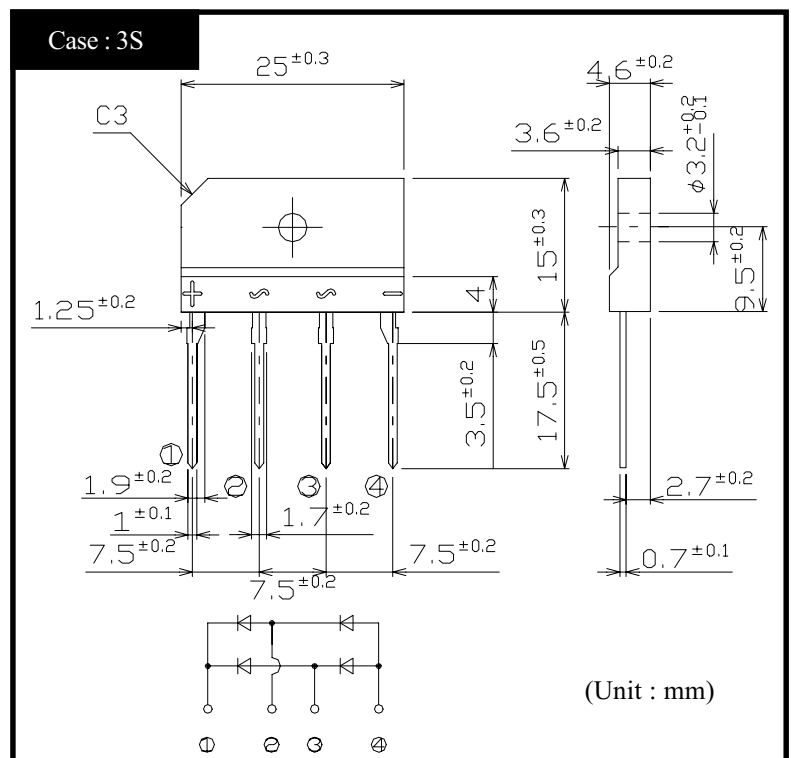
### FEATURES

- Thin Single In-Line Package
- SBD Bridge
- Low VF

### APPLICATION

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

### OUTLINE DIMENSIONS



### RATINGS

#### ● Absolute Maximum Ratings (If not specified Tc=25°C)

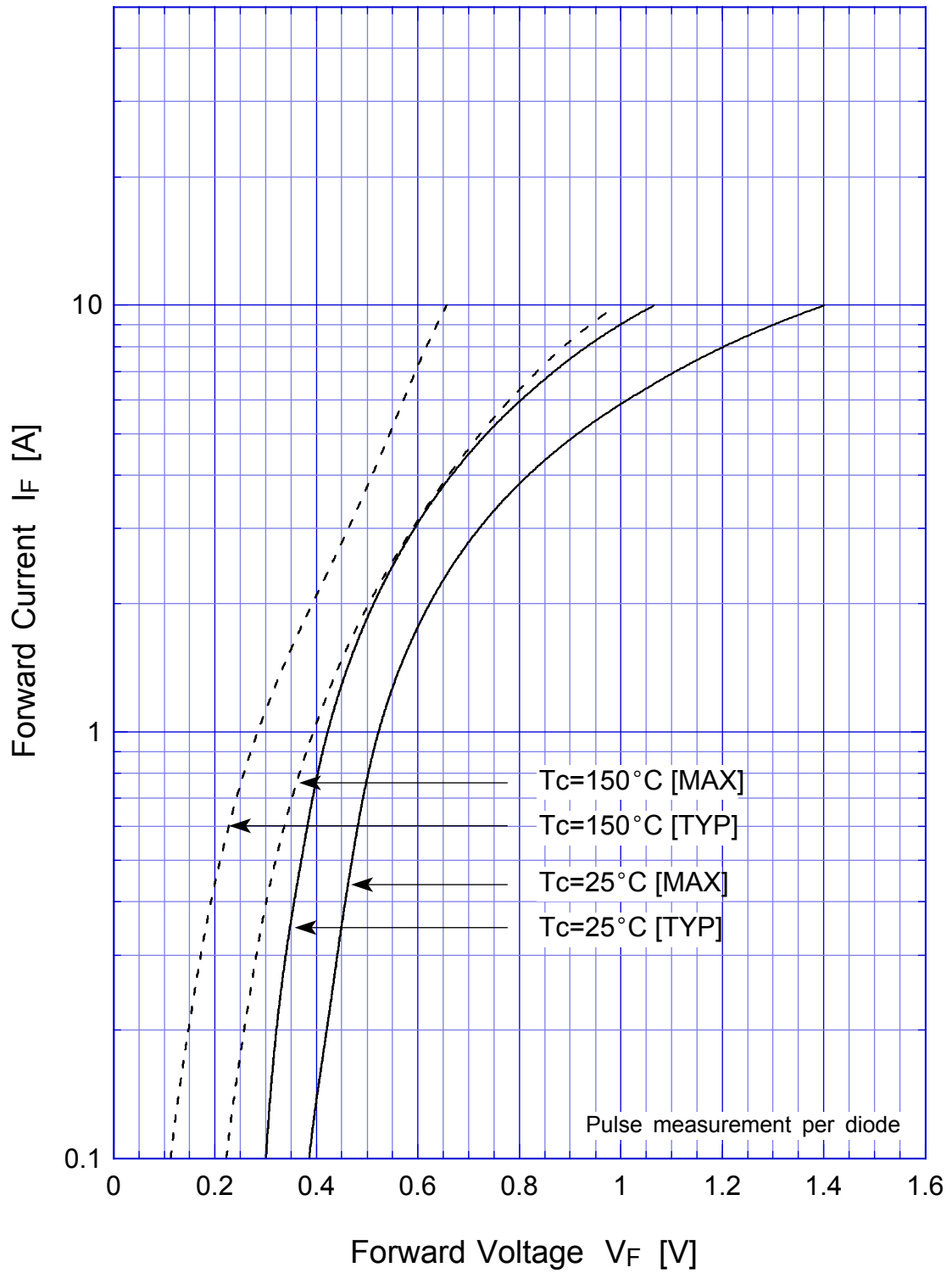
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-40~150	°C
Operating Junction Temperature	T <sub>j</sub>		150	°C
Maximum Reverse Voltage	V <sub>RM</sub>		60	V
Repetitive Peak Surge Reverse Voltage	V <sub>RRSM</sub>	Pulse width 0.5ms, duty 1/40	65	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load With heatsink T <sub>c</sub> =114°C	4	A
		50Hz sine wave, R-load Without heatsink T <sub>a</sub> =46°C	2.3	
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1cycle peak value, T <sub>j</sub> =125°C	60	A
Repetitive Peak Surge Reverse Power	P <sub>RRSM</sub>	Pulse width 10 μs, Rating of per diode, T <sub>j</sub> =25°C	330	W
Dielectric Strength	V <sub>dis</sub>	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 Tc=25°C)

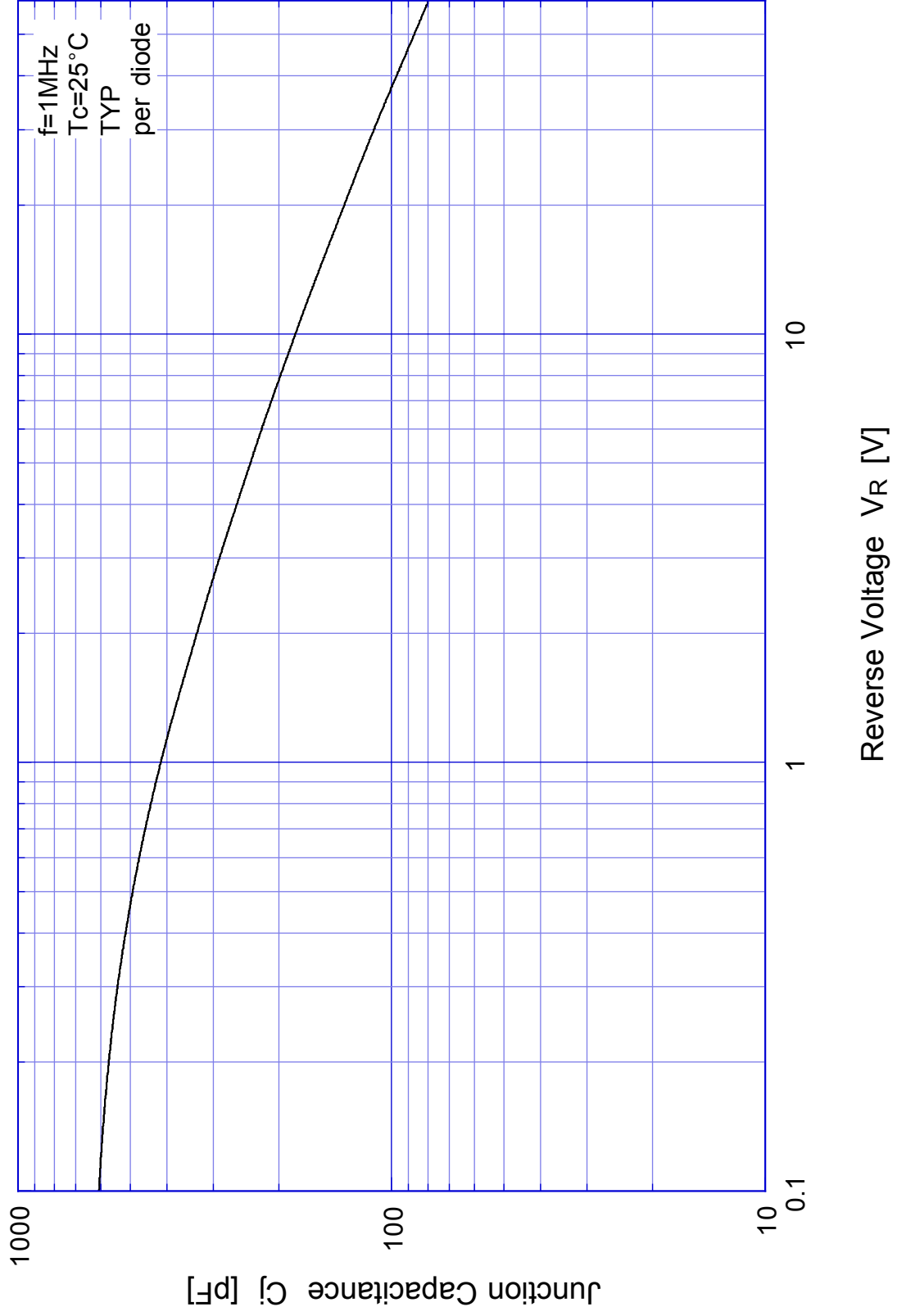
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =2A, Pulse measurement, Rating of per diode	Max.0.62	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement, Rating of per diode	Max.2	mA
Junction Capacitance	C <sub>j</sub>	f=1MHz, V <sub>R</sub> =10V, Rating of per arm	TYP 180	pF
Thermal Resistance	θ <sub>jc</sub>	junction to case With heatsink	Max.5.5	°C/W
	θ <sub>jl</sub>	junction to lead Without heatsink	Max.6	
	θ <sub>ja</sub>	junction to ambient Without heatsink	Max.30	

# D4SBS6

## Forward Voltage

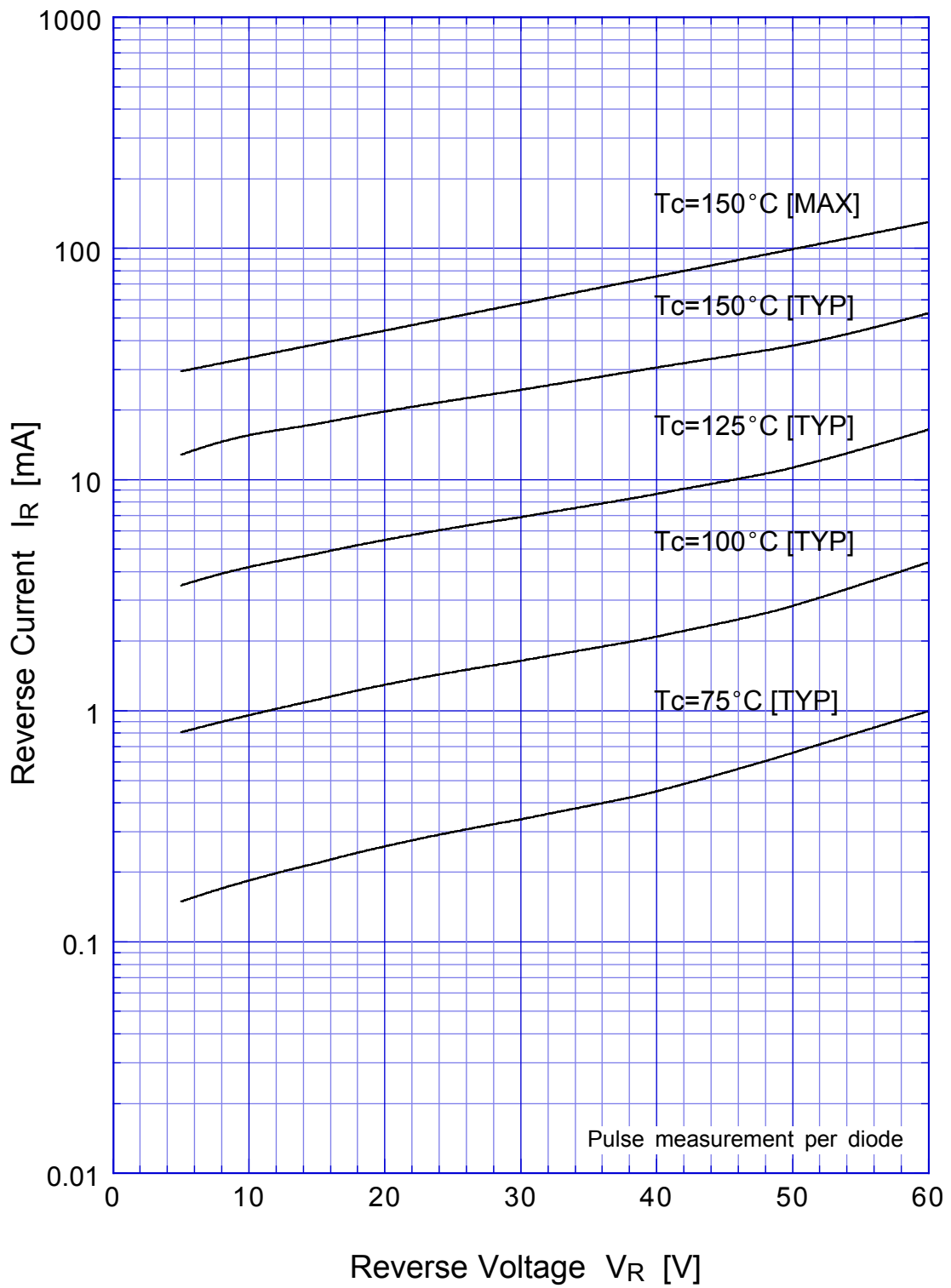


# D4SBS6 Junction Capacitance

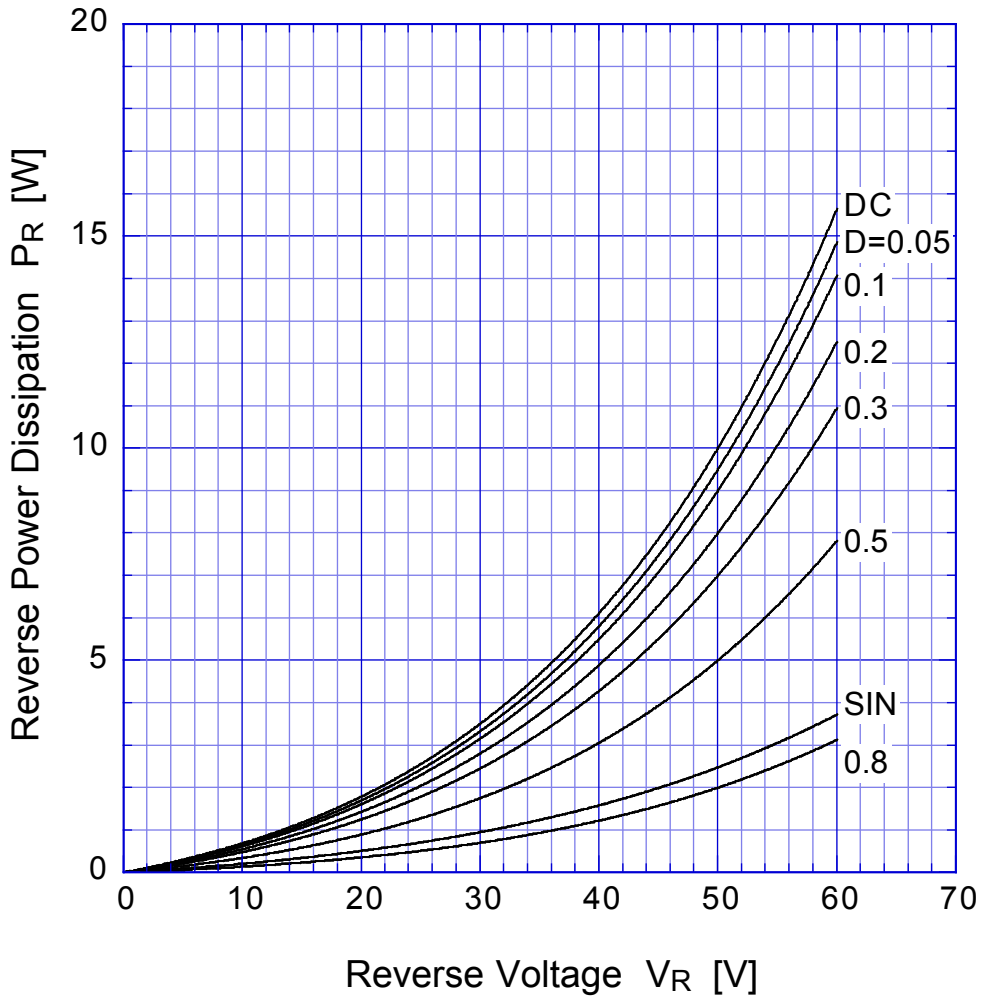


# D4SBS6

## Reverse Current



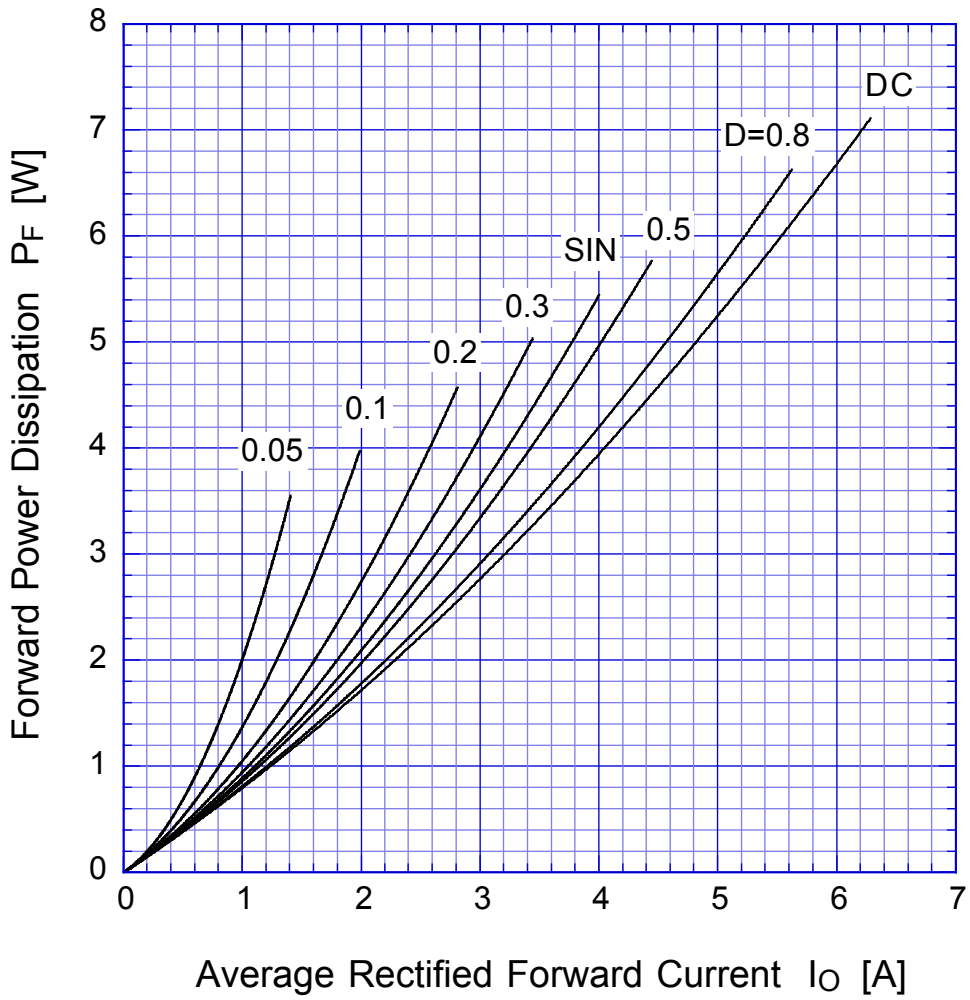
# D4SBS6 Reverse Power Dissipation



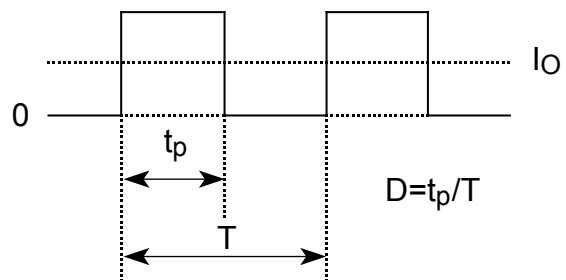
$T_j = 150^\circ\text{C}$



# D4SBS6 Forward Power Dissipation

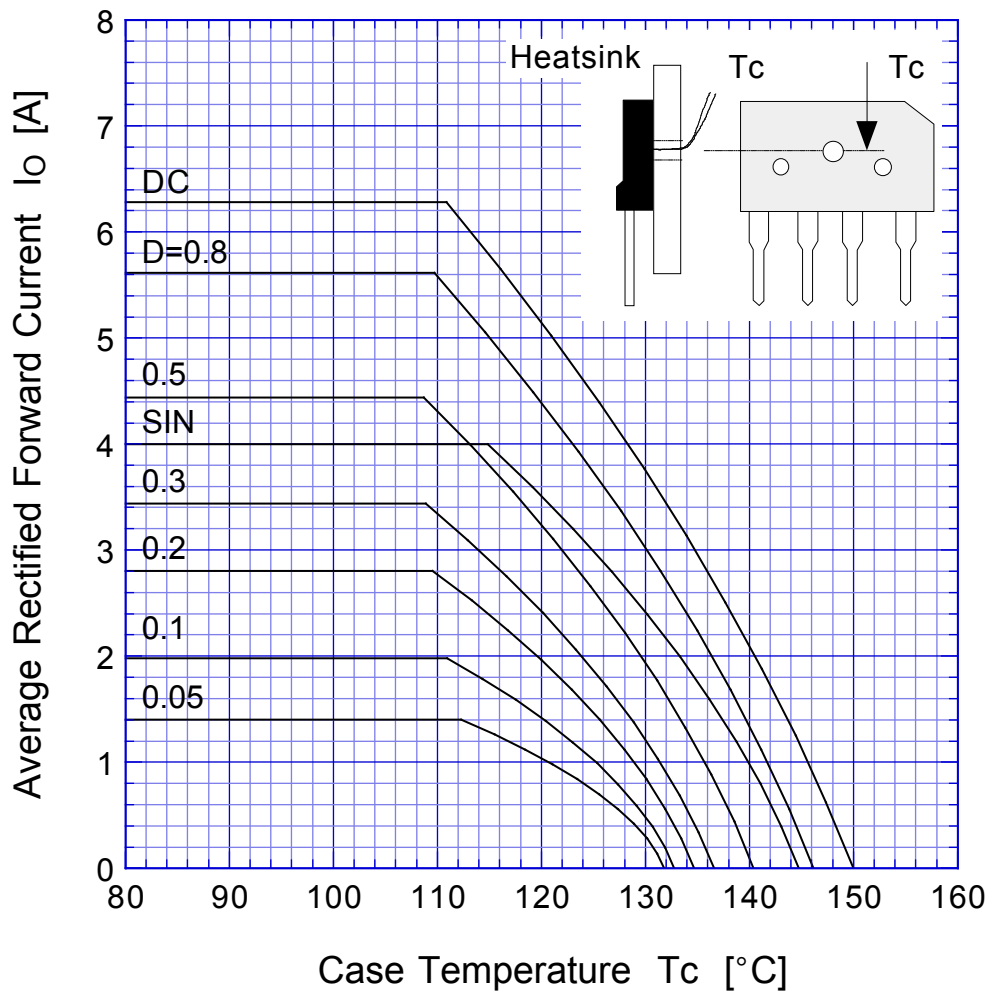


$T_j = 150^\circ\text{C}$



# D4SBS6

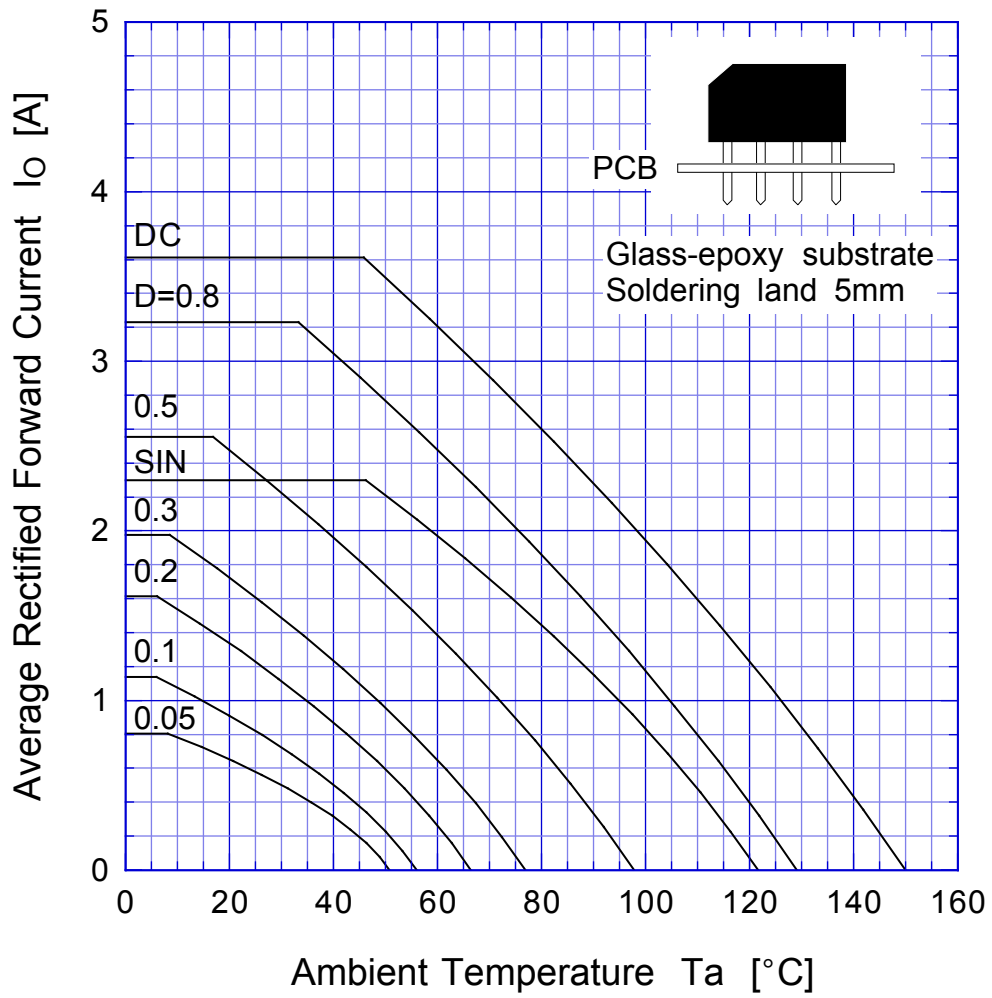
## Derating Curve



Sine wave  
R-load  
with heatsink

# D4SBS6

# Derating Curve

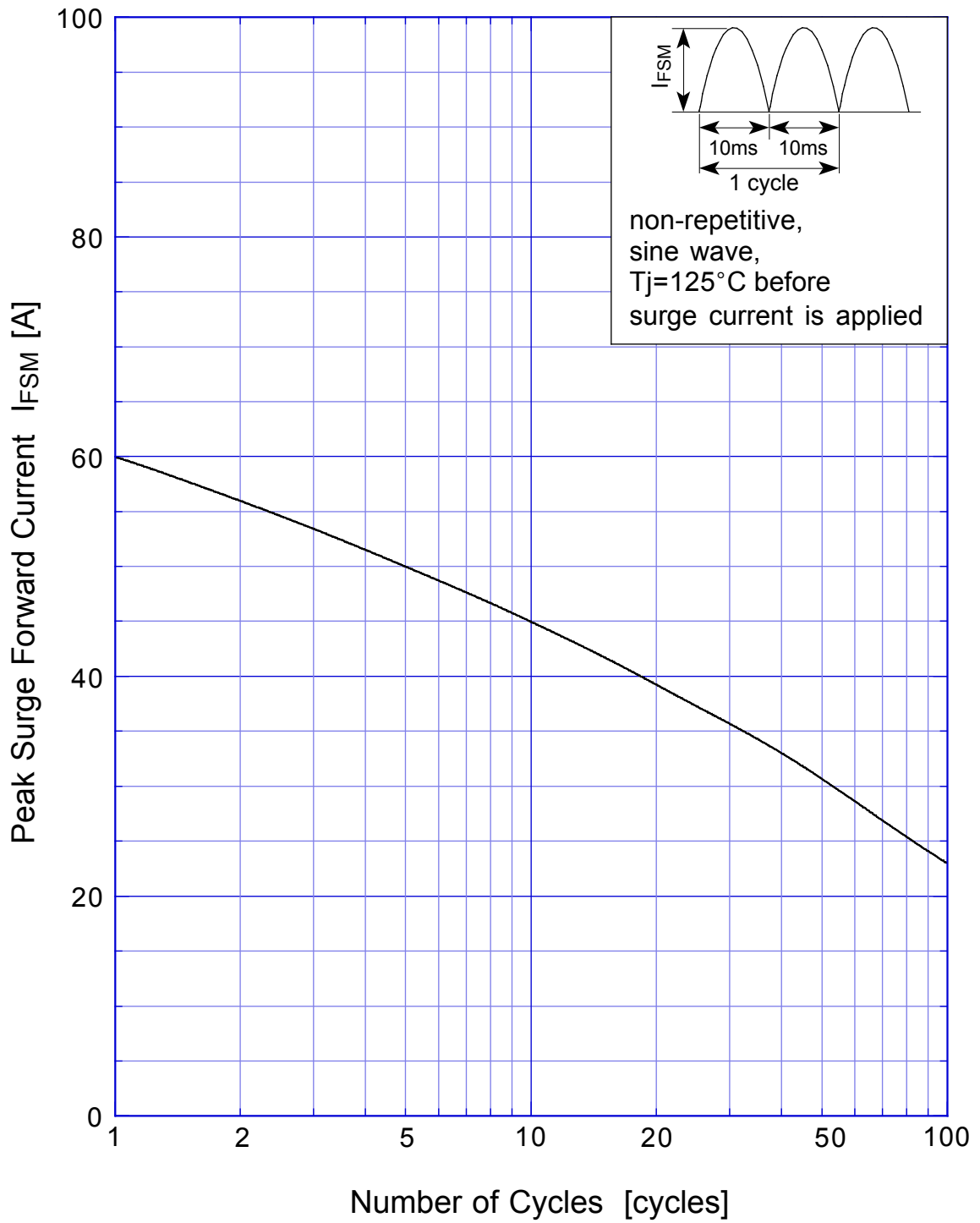


Sine wave  
R-load  
Free in air



# D4SBS6

## Peak Surge Forward Capability



# SBD Repetitive Surge Reverse Power Derating Curve



# SBD

## Repetitive Surge Reverse Power Capability



This datasheet has been download from:

[www.datasheetcatalog.com](http://www.datasheetcatalog.com)

Datasheets for electronics components.