

# SHINDENGEN

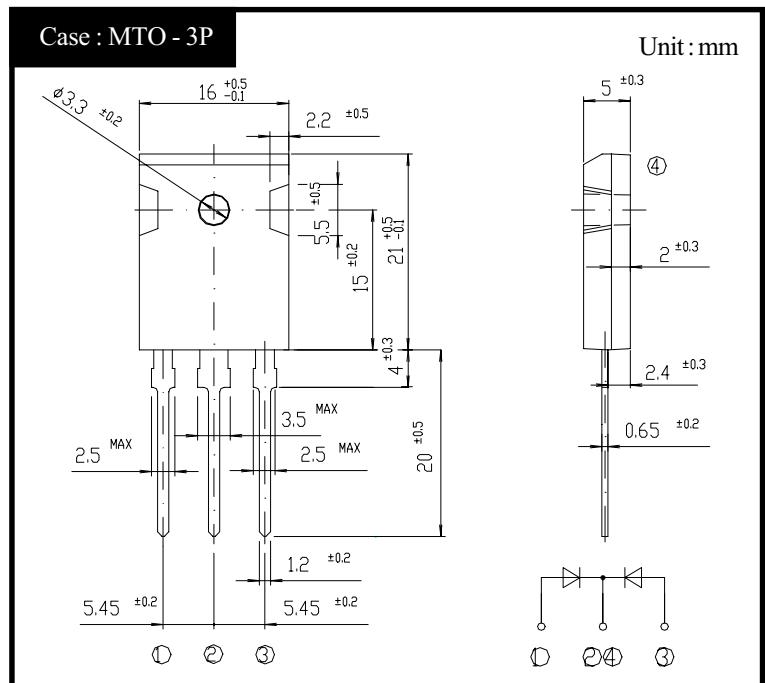
## Schottky Rectifiers (SBD)

Dual

**S40HC1R5**

**15V 40A**

### OUTLINE DIMENSIONS



### RATINGS

#### ● Absolute Maximum Ratings ( Tc=25°C, unless otherwise specified )

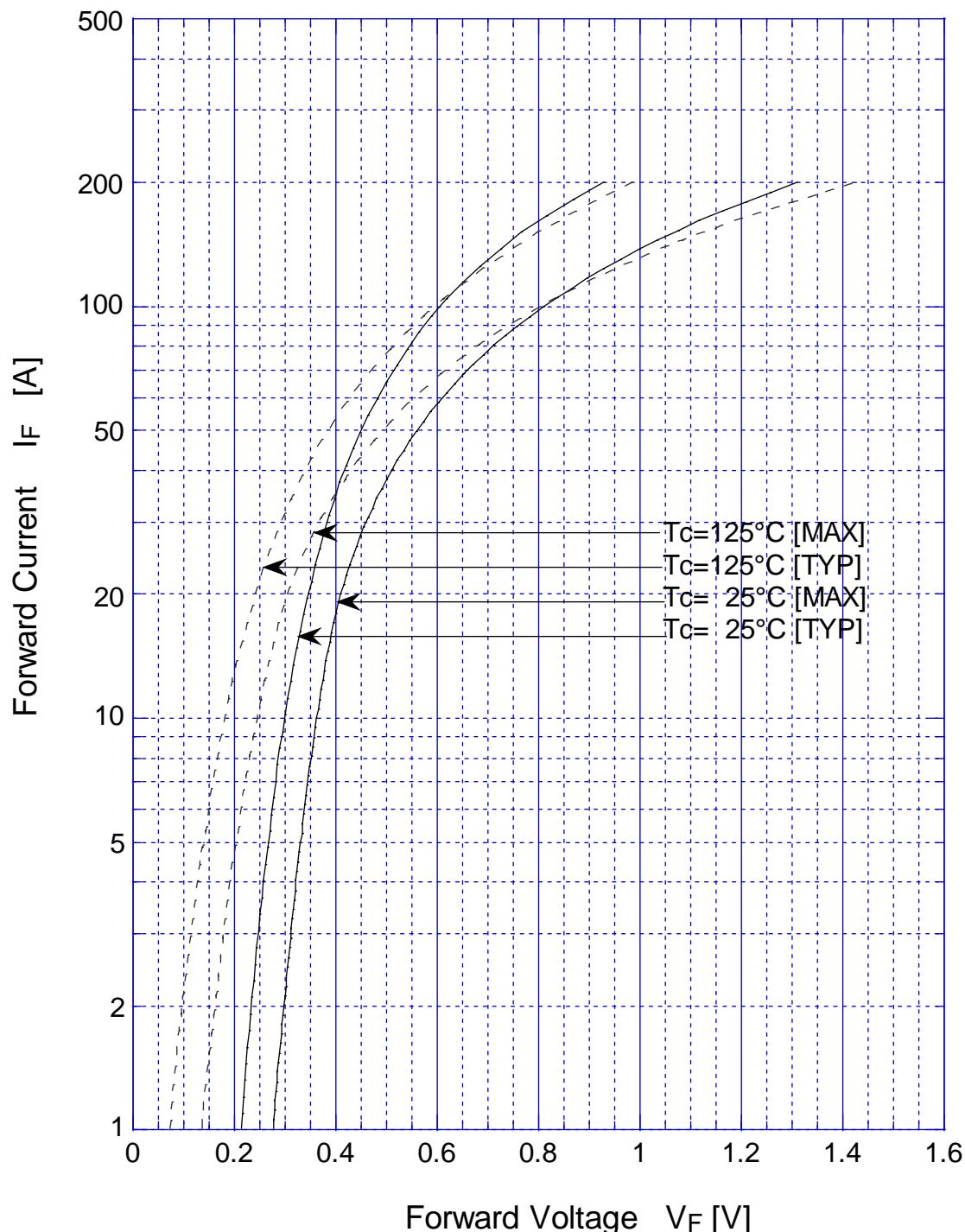
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~125	°C
Operating Junction Temperature	Tj		125	°C
Maximum Reverse Voltage	V <sub>RM</sub>		15	V
Average Rectified Forward Current	I <sub>o</sub>	50Hz sine wave, R-load, Rating for each diode I <sub>o</sub> /2, Tc=103°C	40	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	350	A
Mounting Torque	T <sub>OR</sub>	(Recommended torque : 0.5N·m)	0.8(0.5)	N·m

#### ● Electrical Characteristics ( Tc=25°C, unless otherwise specified )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20A, Pulse measurement, Rating of per diode	Max 0.41	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =15V, Pulse measurement, Rating of per diode	Max 10	mA
Junction Capacitance	C <sub>j</sub>	f=1MHz, V <sub>R</sub> =10V, Rating of per diode	Typ 960	pF
Thermal Resistance	θ <sub>jc</sub>	junction to case	Max 1.0	°C/W

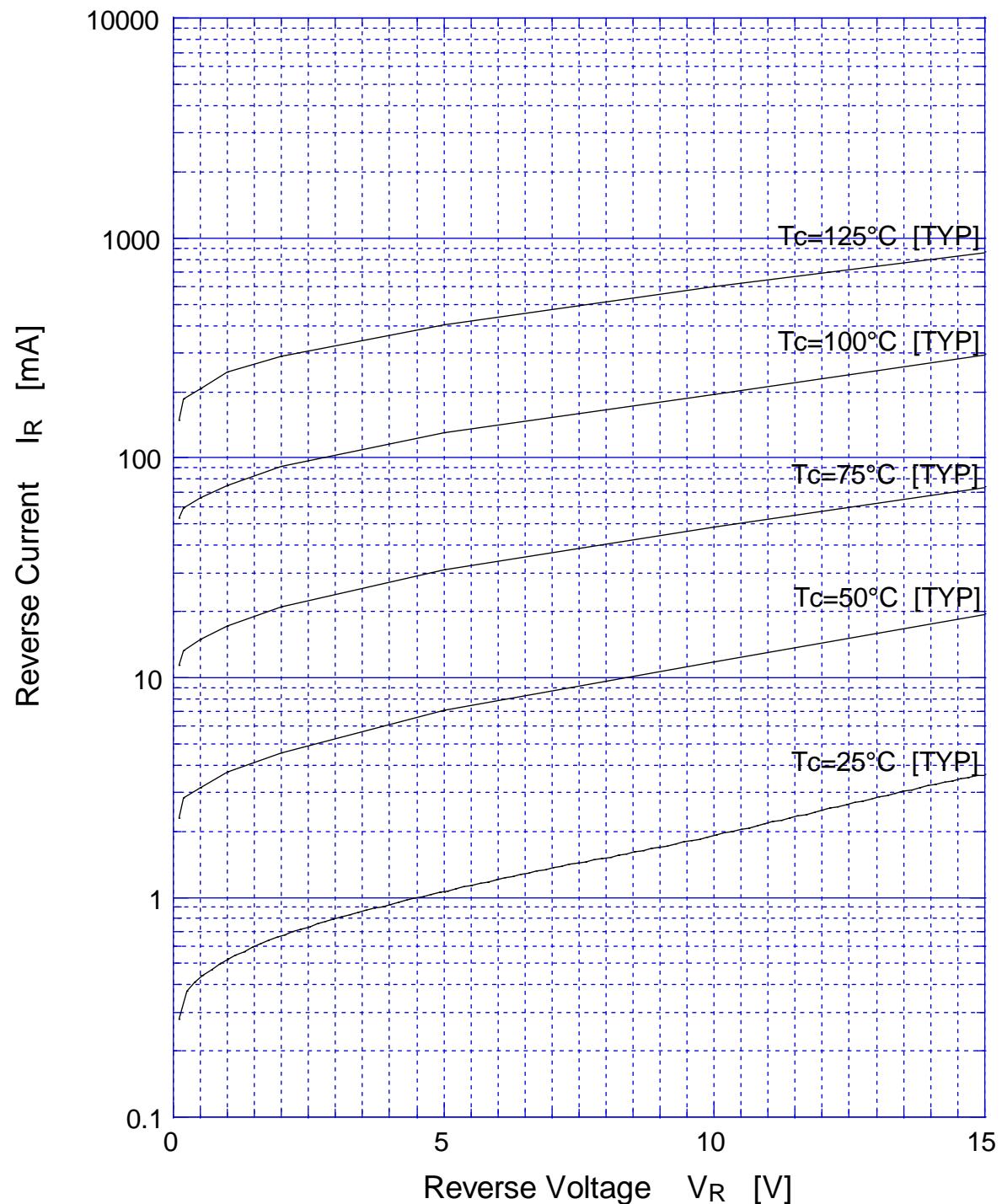
## S40HC1R5 Forward Voltage

Pulse measurement per diode

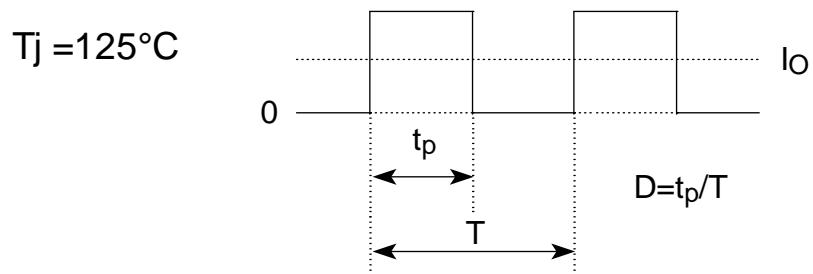
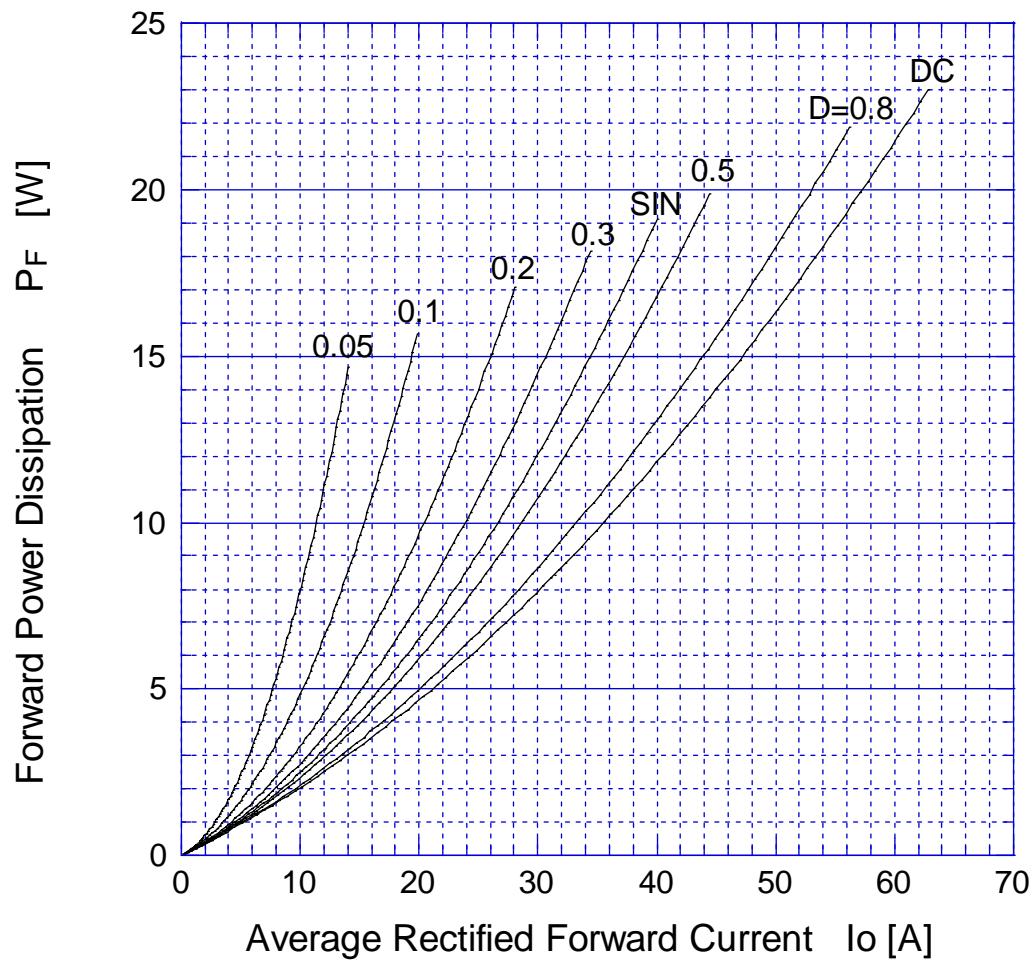


# S40HC1R5 Reverse Current

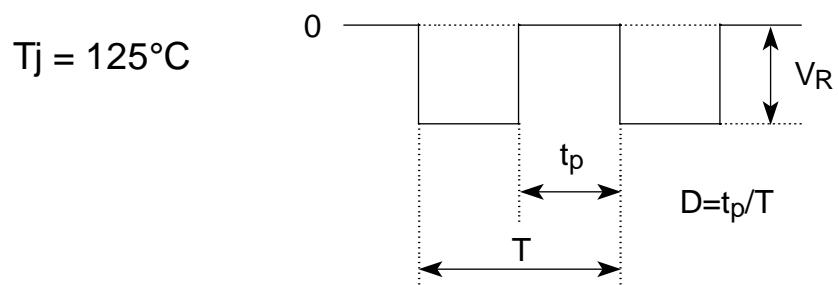
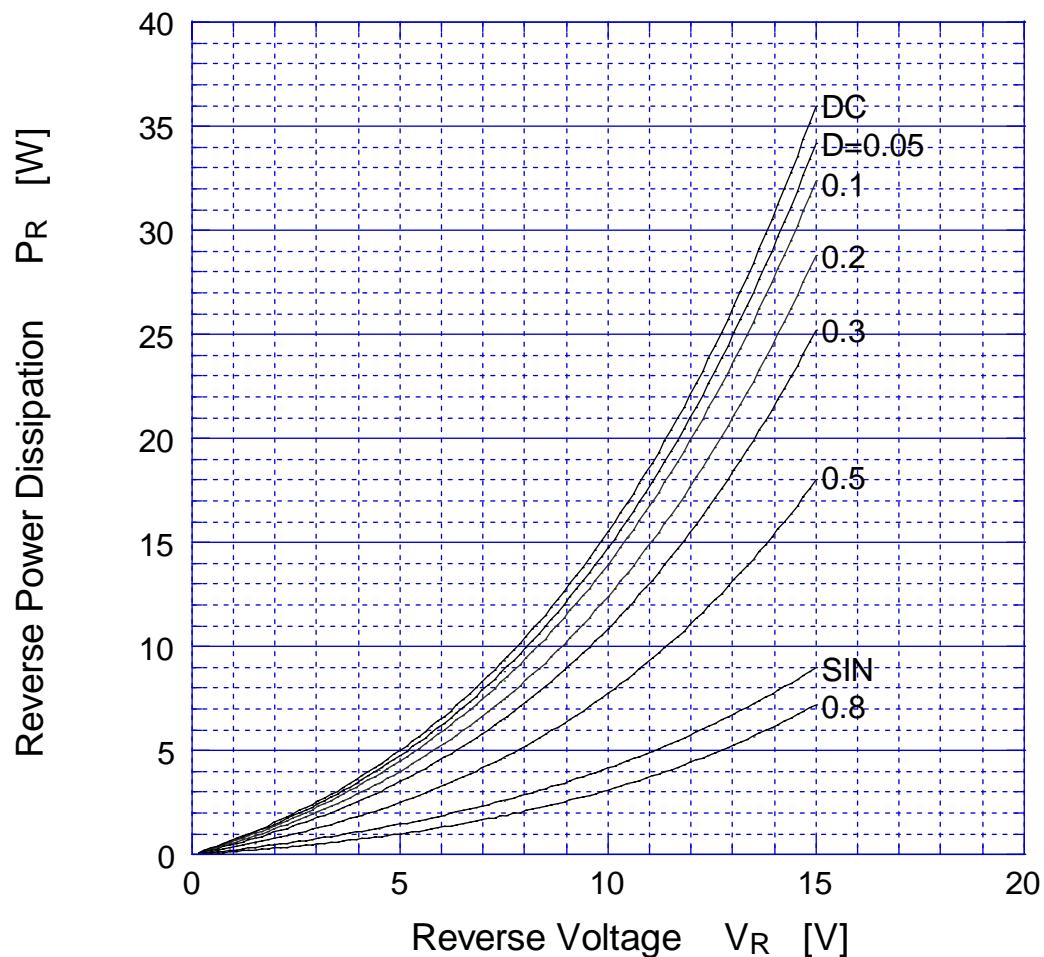
Pulse measurement per diode



## S40HC1R5 Forward Power Dissipation

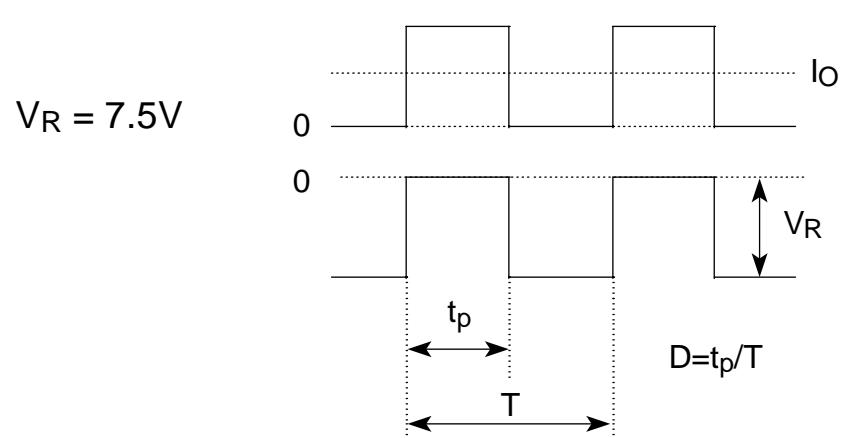
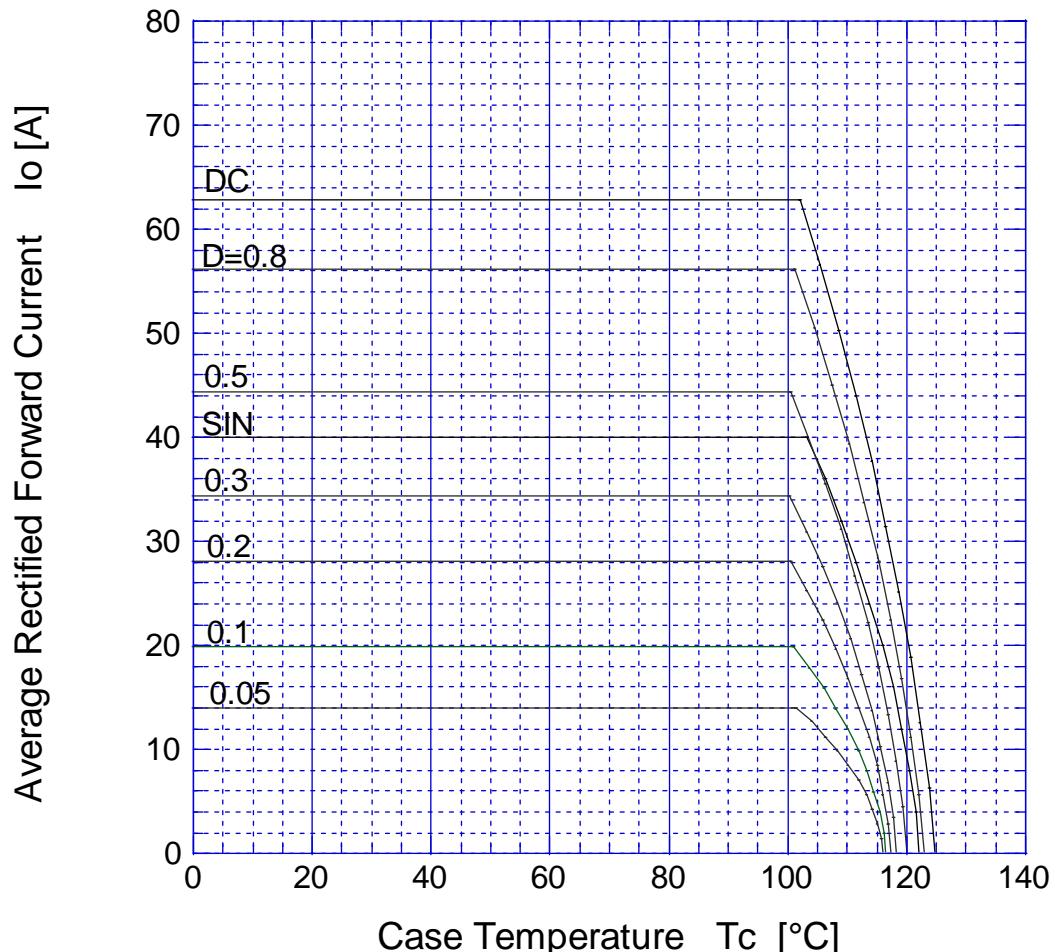


## S40HC1R5 Reverse Power Dissipation

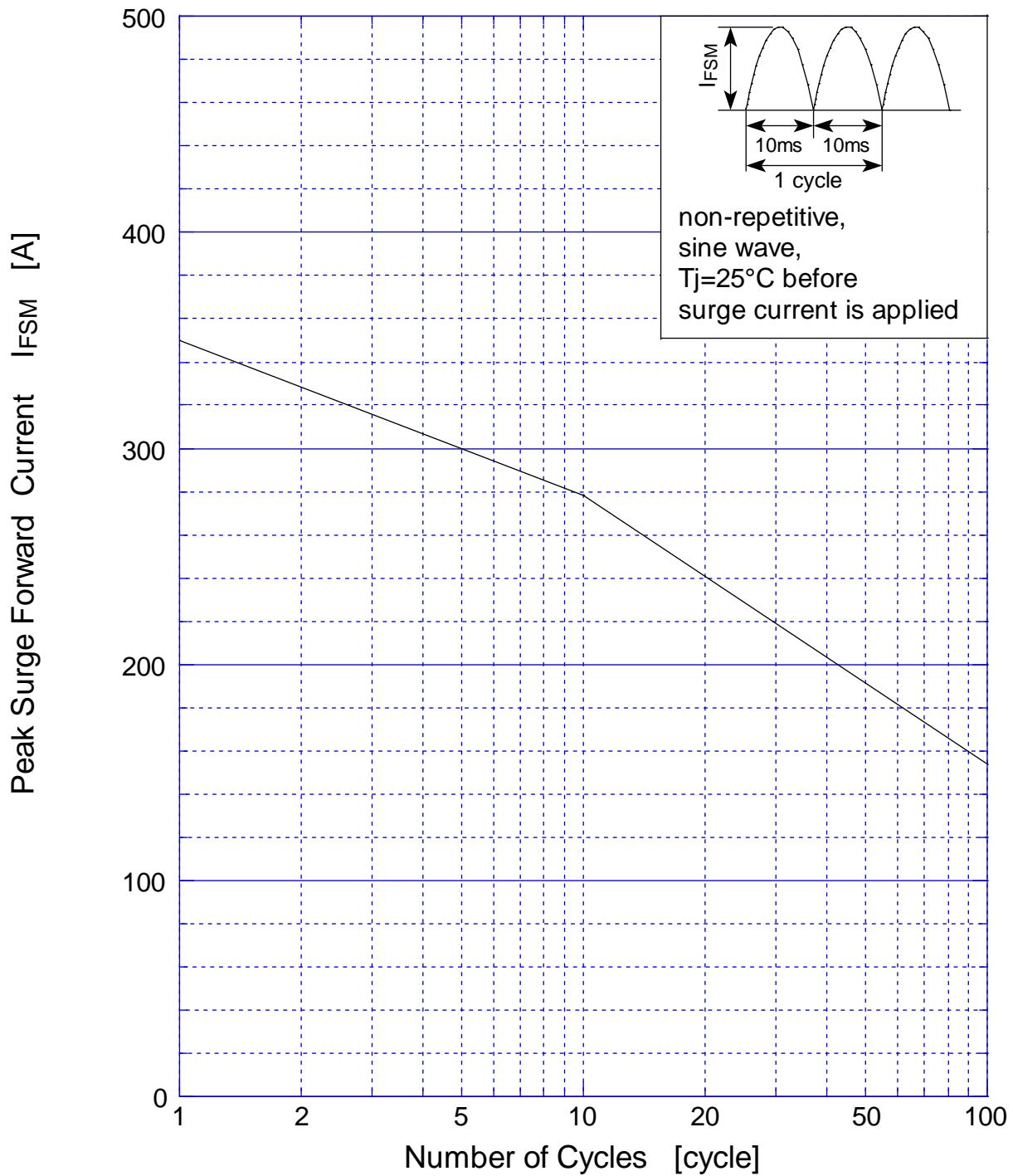


# S40HC1R5

## Derating Curve



## S40HC1R5 Peak Surge Forward Capability



## S40HC1R5 Junction Capacitance

