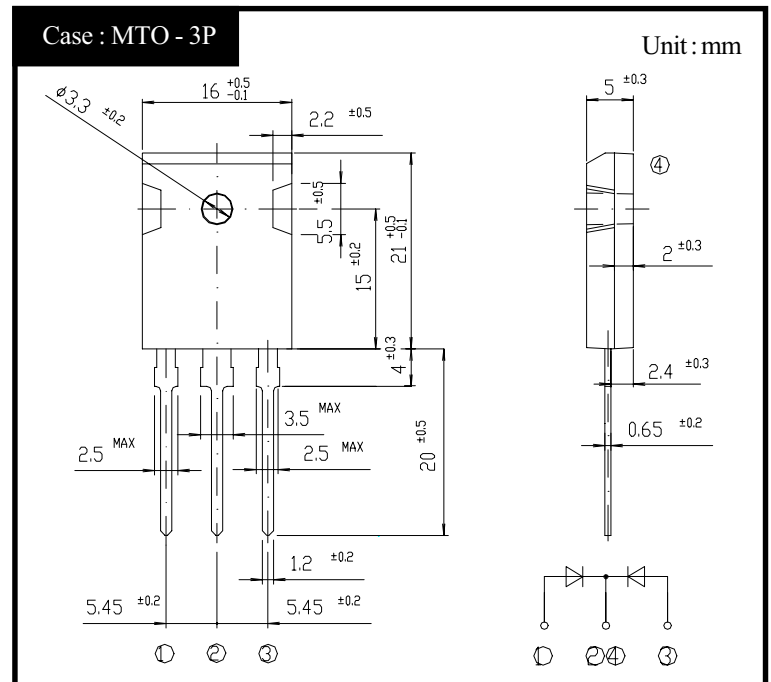


S40HC1R5

15V 40A

OUTLINE DIMENSIONS



RATINGS

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

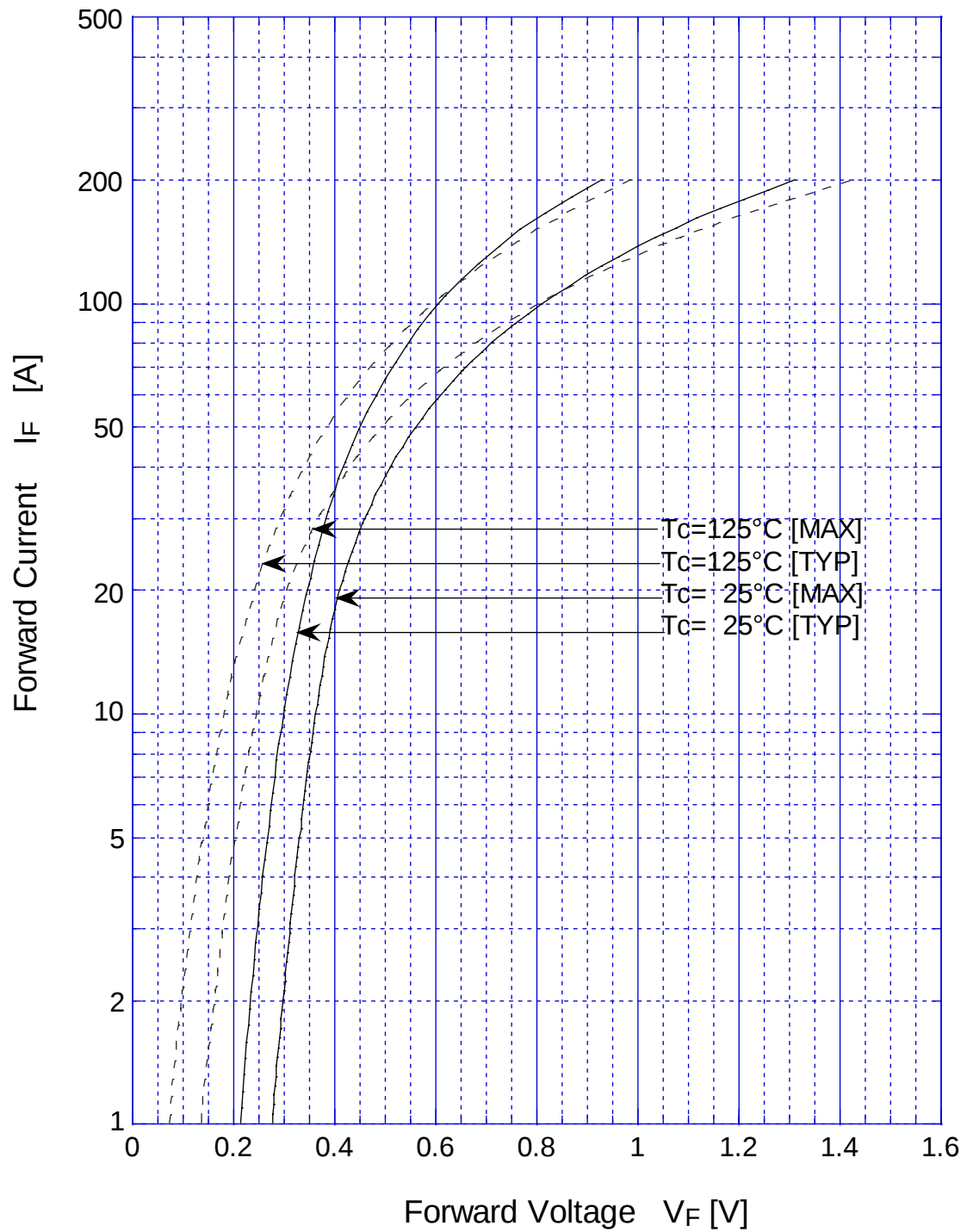
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~125	°C
Operating Junction Temperature	Tj		125	°C
Maximum Reverse Voltage	V _{RM}		15	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =103°C	40	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	350	A
Mounting Torque	TOR	(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_F	$I_F=20A$, Pulse measurement, Rating of per diode	Max 0.41	V
Reverse Current	I_R	$V_R=15V$, Pulse measurement, Rating of per diode	Max 10	mA
Junction Capacitance	C_j	$f=1MHz$, $V_R=10V$, Rating of per diode	Typ 960	pF
Thermal Resistance	θ_{jc}	junction to case	Max 1.0	°C/W

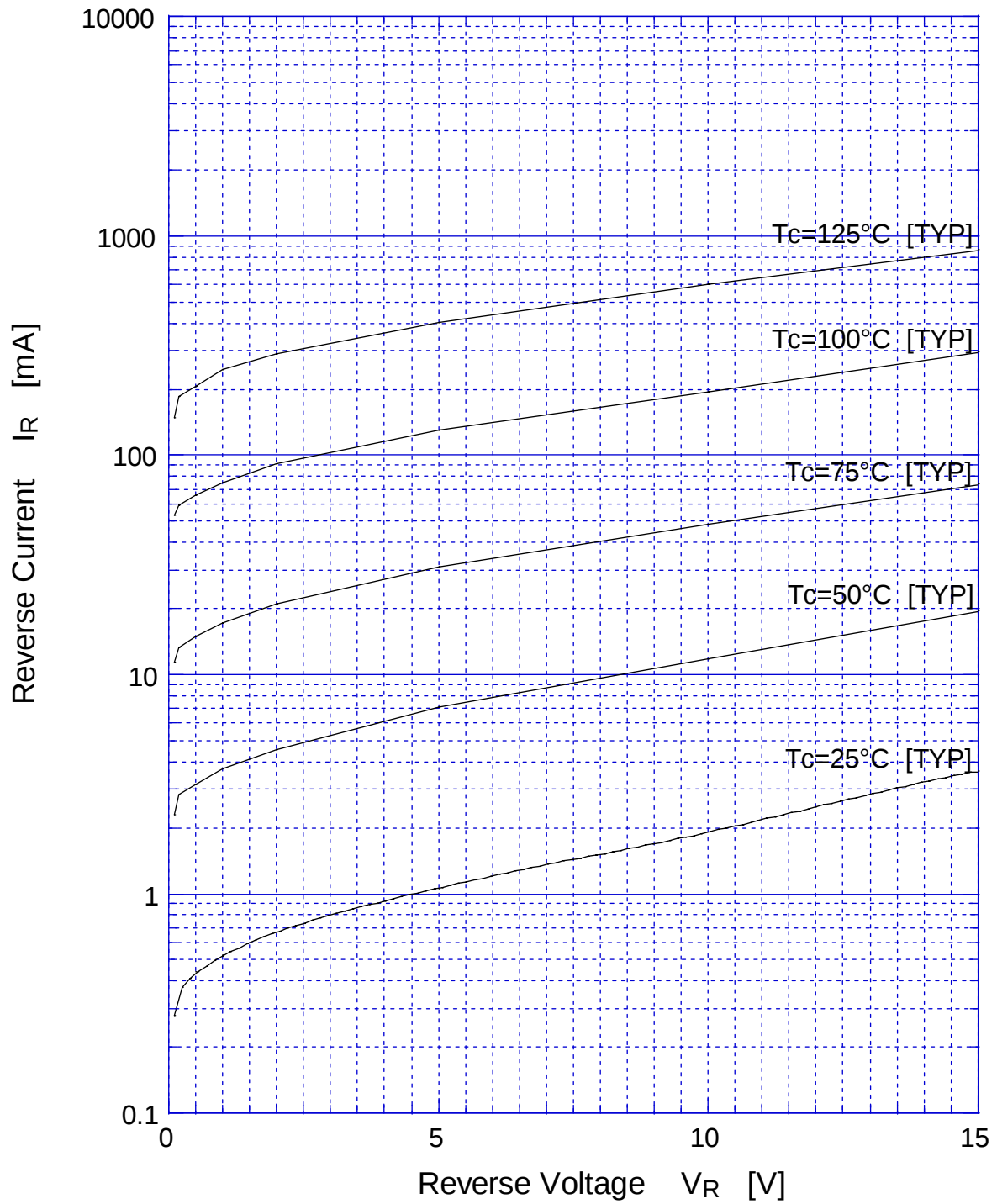
S40HC1R5 Forward Voltage

Pulse measurement per diode

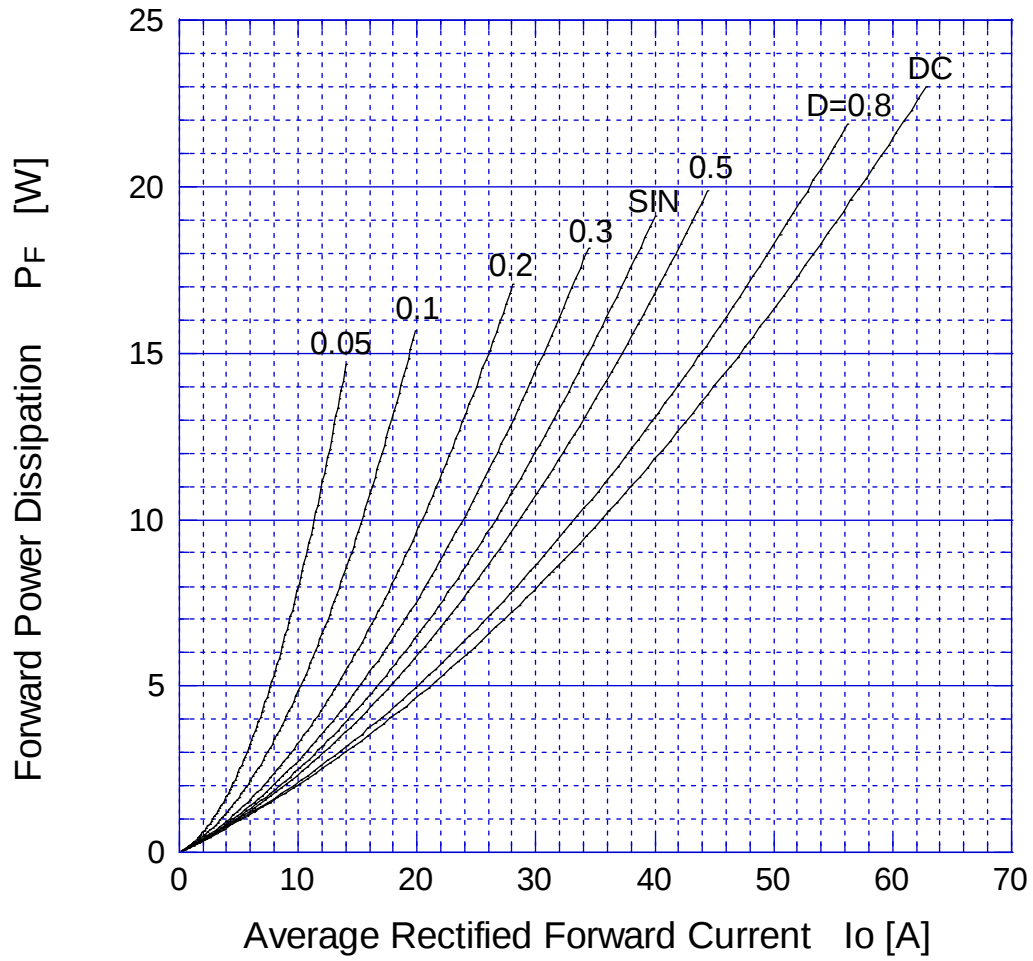


S40HC1R5 Reverse Current

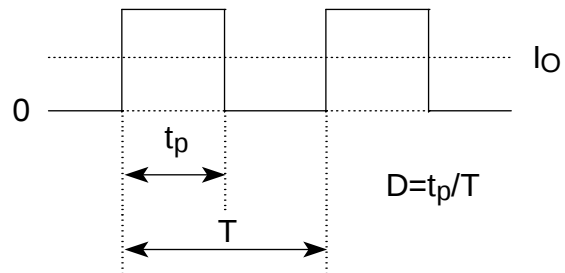
Pulse measurement per diode



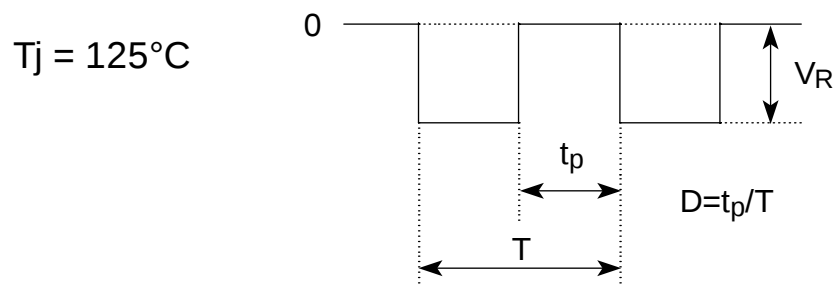
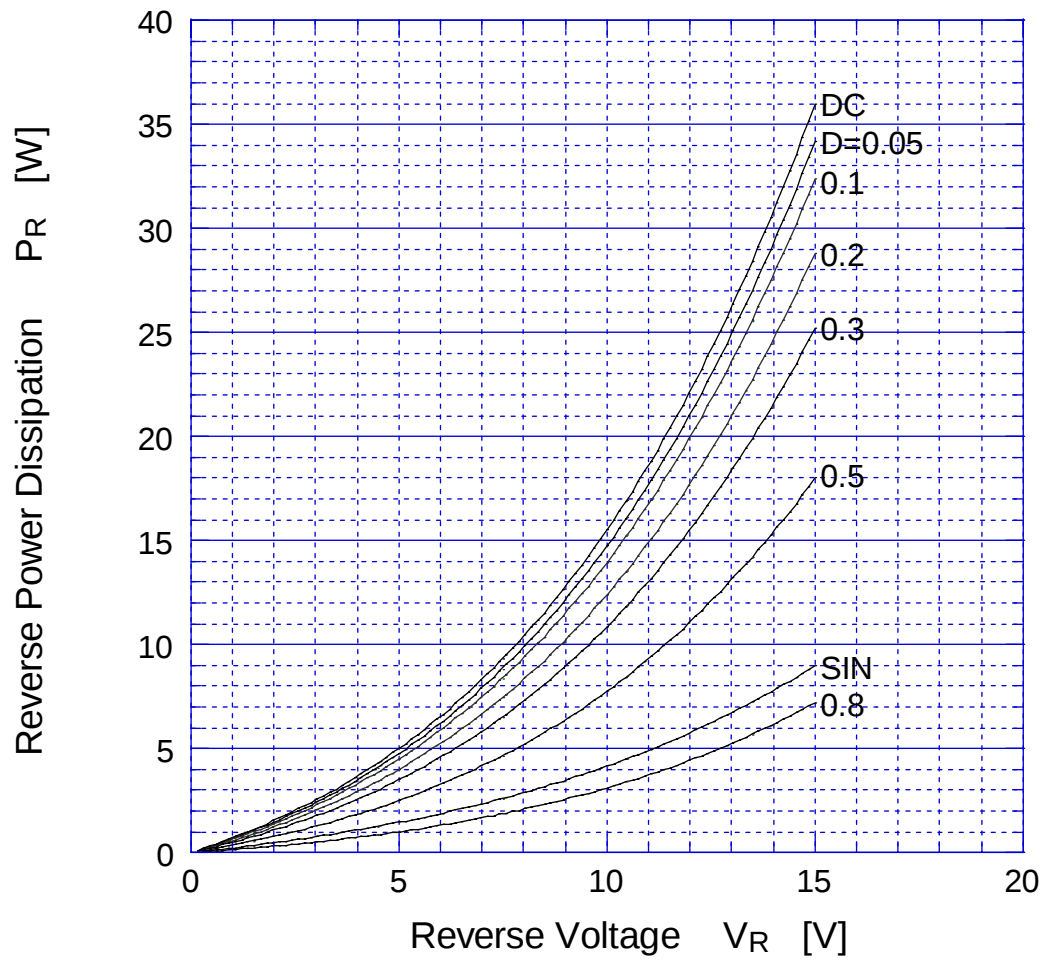
S40HC1R5 Forward Power Dissipation



$T_j = 125^\circ\text{C}$

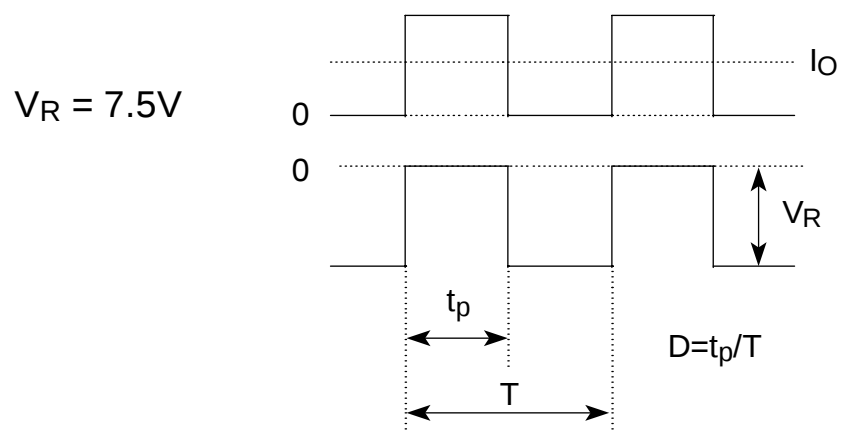
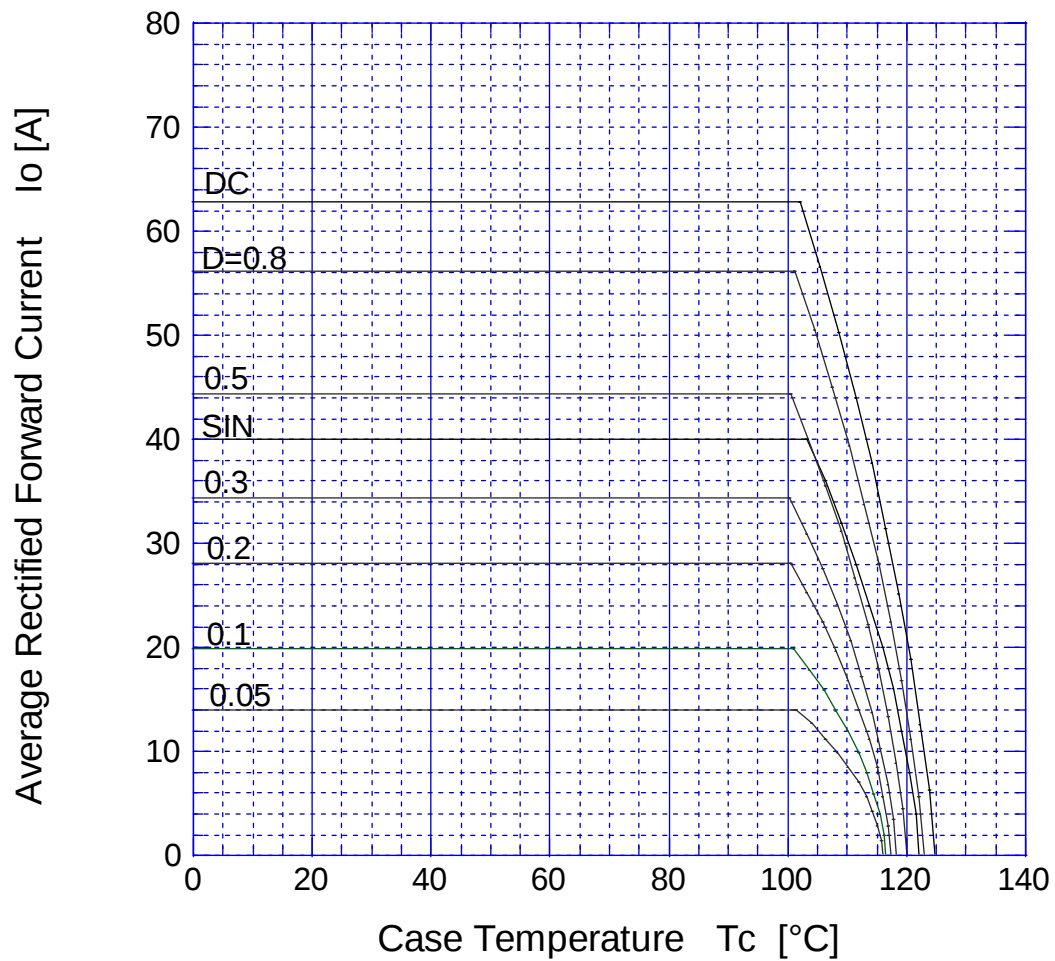


S40HC1R5 Reverse Power Dissipation

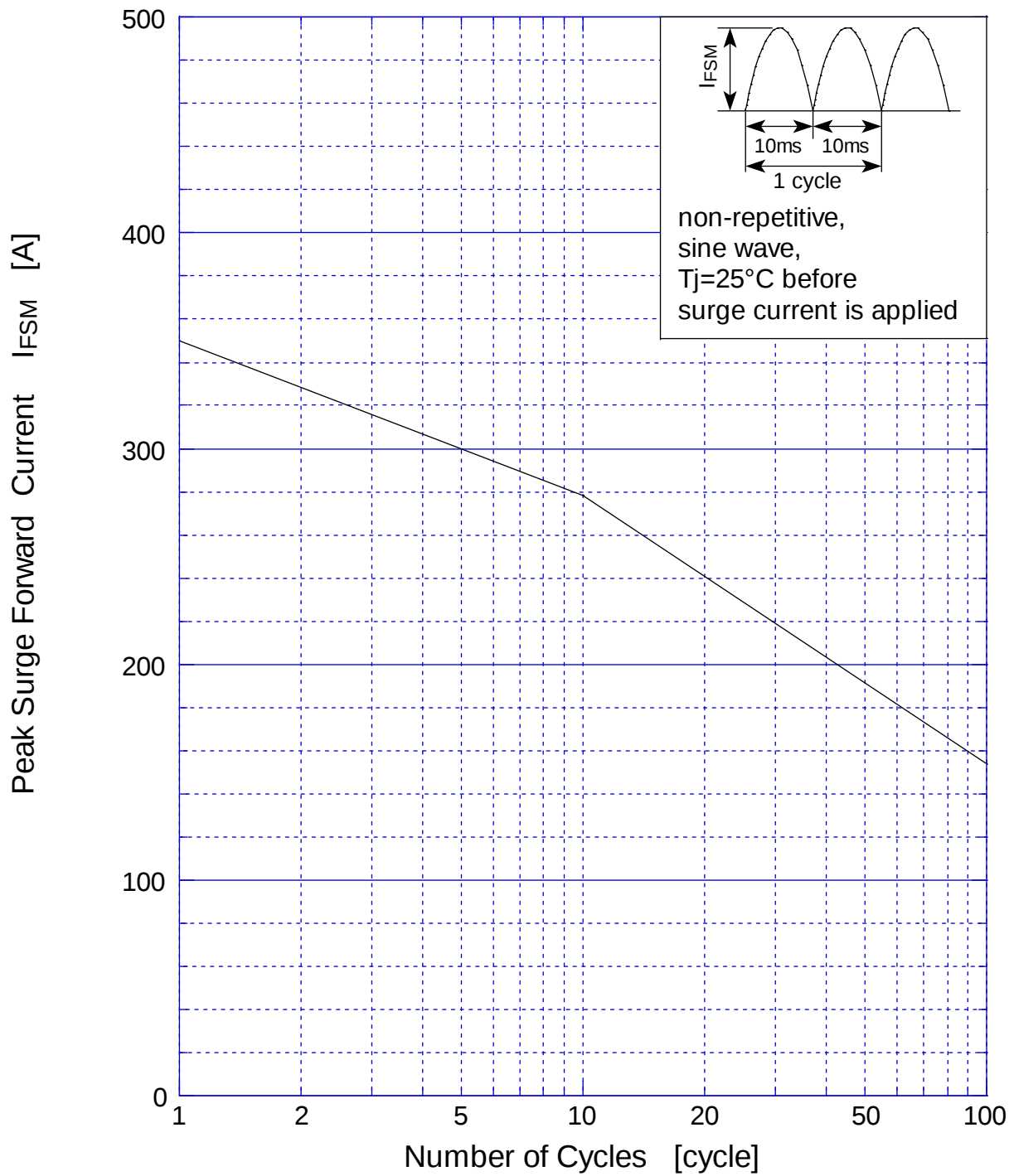


S40HC1R5

Derating Curve



S40HC1R5 Peak Surge Forward Capability



S40HC1R5 Junction Capacitance

