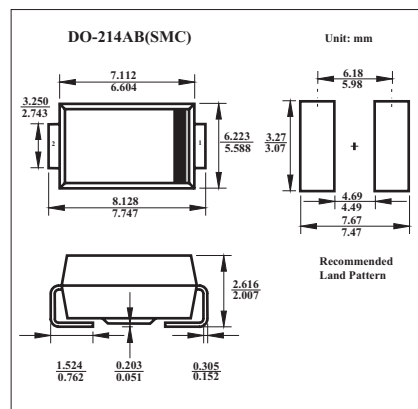


# MURS340

### ■ Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- Ultrafast recovery time for high efficiency
- Glass passivated junction



### ■ Maximum Ratings & Thermal Characteristics Ratings at 25°C

Parameter	Symbol	Rating	Unit
Peak repetitive reverse voltage	VRRM	400	V
Working peak reverse voltage	VRWM		
DC blocking voltage	VR		
Average rectified forward current	IF(AV)	3	A
TL = 130°C			
TL = 115°C		4	A
Non-repetitive peak surge current	IFSM	125	A
Operating junction and storage temperature range	TJ, TSTG	-65 to +175	°C
Typical thermal resistance junction to ambient	RθJL	11	°C/W

### ■ Electrical Characteristics Ta = 25°C

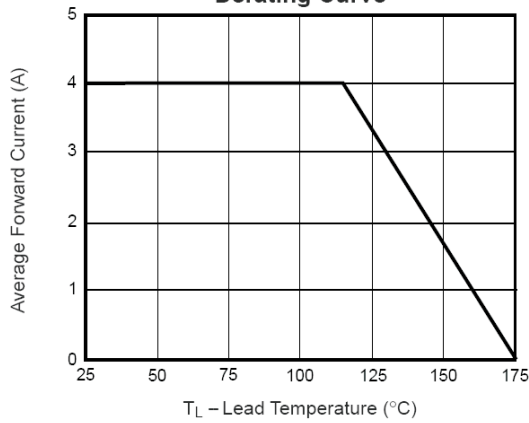
Parameter	Symbol	Testconditions	Rating	Unit
Instantaneous forward voltage *	VF	IF = 3.0 A, TJ = 25°C	1.20	V
		IF = 4.0 A, TJ = 25°C	1.25	
		IF = 3.0 A, TJ = 150°C	1.05	
Instantaneous reverse current *	IR	Rated dc Voltage, TJ = 25°C	10	μ A
		Rated dc Voltage, TJ = 150°C	250	
Maximum reverse recovery time	trr	IF=0.5A, IR=1.0A, Itr=0.25A	50	ns
		IF=1.0A, di/dt=50A/μ s, VR=30V, Itr=10% IRM	75	ns
		IF=1.0A, di/dt=100A/μ s, Rec.to 1.0V	25	ns

\* Pulse test: pulse width = 300 μ s, duty cycle ≤ 2.0%.

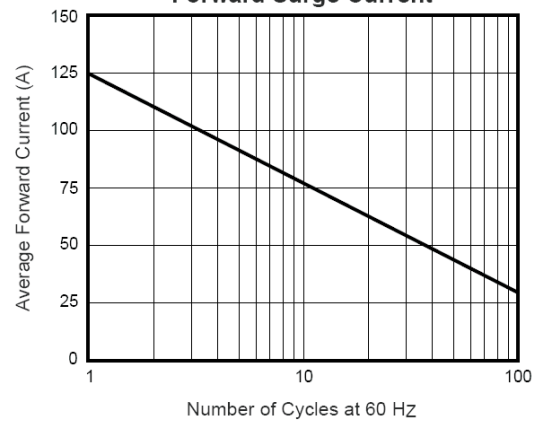
# MURS340

■ Ratings and Characteristic Curves (TA=25°C Unless otherwise noted)

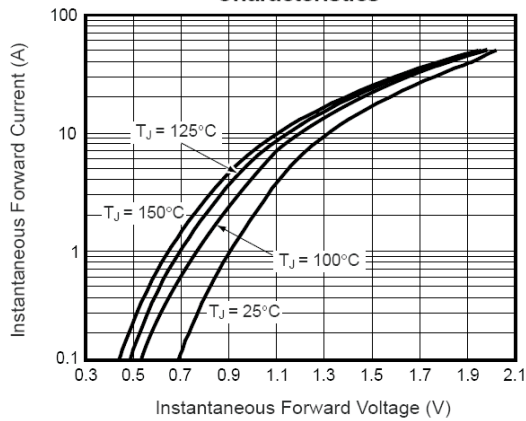
**Fig. 1 – Forward Current Derating Curve**



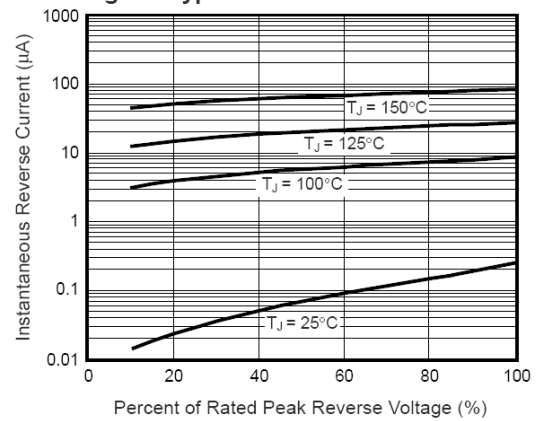
**Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current**



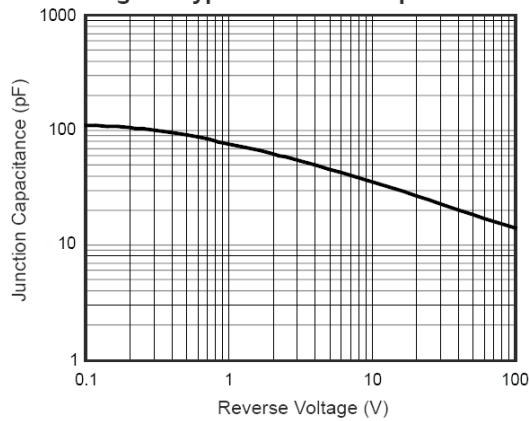
**Fig. 3 – Typical Instantaneous Forward Characteristics**



**Fig. 4 – Typical Reverse Characteristics**



**Fig. 5 – Typical Junction Capacitance**



**Fig. 6 – Typical Reverse Switching Characteristics**

