

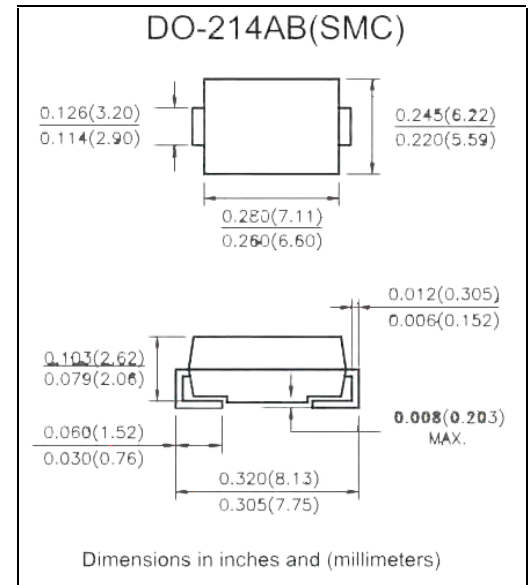
## SURFACE MOUNT ULTRAFAST RECOVERY RECTIFIER

### 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
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

### MECHANICAL DATA

- Case: JEDEC DO-214AB molded plastic body over passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	MURS340	MURS360	UNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	400	600	Volts
Maximum RMS Voltage	$V_{RMS}$	280	420	Volts
Maximum DC Blocking Voltage	$V_{DC}$	400	600	Volts
Maximum Average Forward Rectified Current at $T_A=125^\circ\text{C}$	$I_{(AV)}$	3.0		Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	90		Amps
Maximum Instantaneous Forward Voltage at 1.0A	$V_F$	1.3	1.68	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	5		$\mu\text{A}$
	$T_A = 125^\circ\text{C}$	100		
Maximum reverse recovery time at $I_F = 0.5\text{A}$ , $I_R = 1.0\text{A}$ , $I_{rr} = 0.25\text{A}$	$T_{RR}$	50		nS
Typical thermal resistance	$R_{\theta JC}$	15		$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	55 to +150		$^\circ\text{C}$

#### Notes:

- 1.Reverse Recovery Test Conditions: $I_f=0.5\text{A}$ , $I_r=1.0\text{A}$ , $I_{rr}=0.25\text{A}$ .
- 2.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 3.Thermal Resistance thermal Junction to Ambient at .375"(9.5mm)lead length, P.C. board mounted.

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### RATING AND CHARACTERISTIC CURVES MURS340 - MURS360

Fig.1 Maximum Average Forward Current Rating

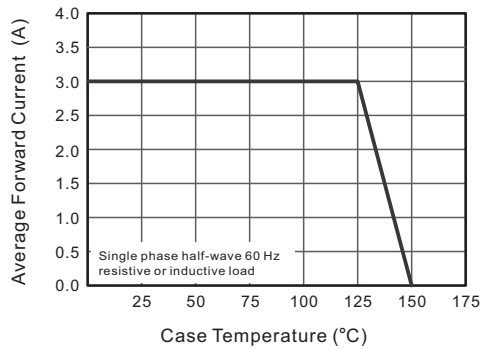


Fig.2 Typical Reverse Characteristics

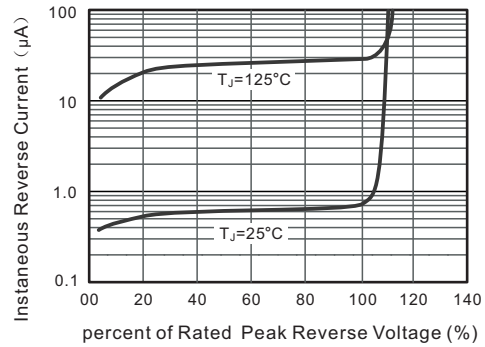


Fig.3 Typical Forward Characteristics

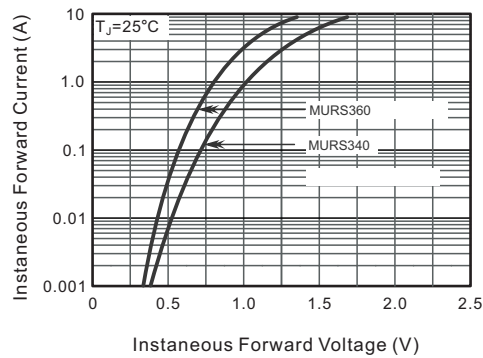
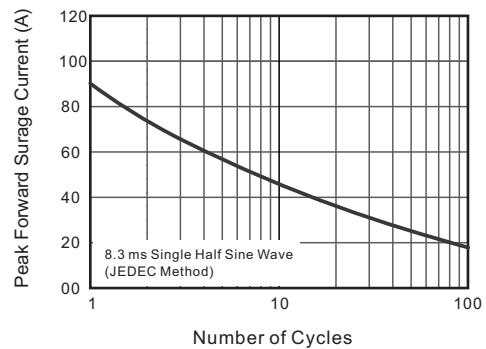


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



#### Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.