

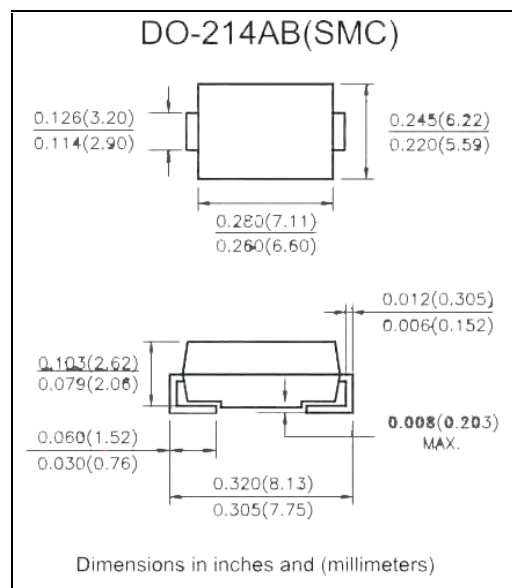
SURFACE MOUNT ULTRAFAST RECOVERY RECTIFIER

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°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°C	I _R	5		μA
	T _A = 125°C		100		
Maximum reverse recovery time at I _F =0.5A, I _R =1.0A, I _{rr} =0.25A		T _{RR}	50		nS
Typical thermal resistance		R _{θJC}	15		°C/W
Operating and Storage Temperature Range		T _J , T _{STG}	55 to +150		°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

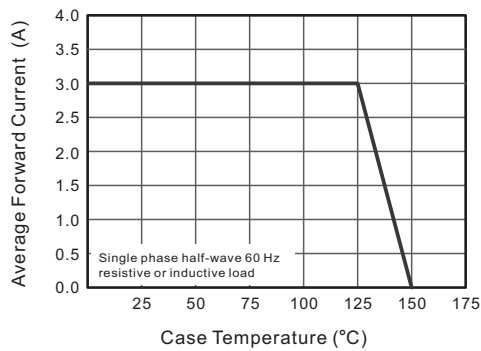


Fig.2 Typical Reverse Characteristics

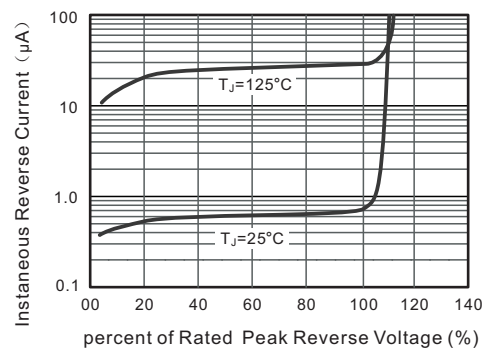


Fig.3 Typical Forward Characteristics

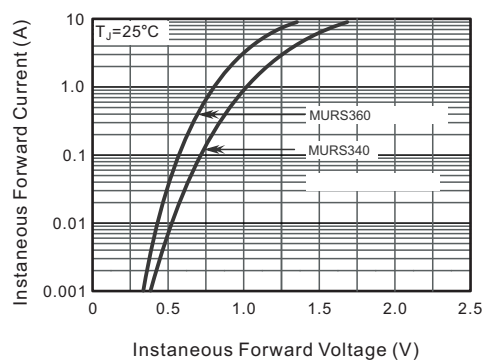
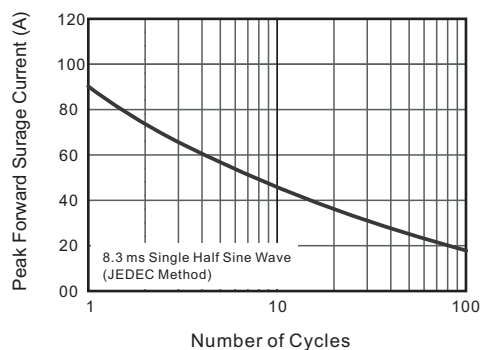


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



Disclaimer

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