

ULTRAFAST RECTIFIER MURS320B-360B

FEATURES

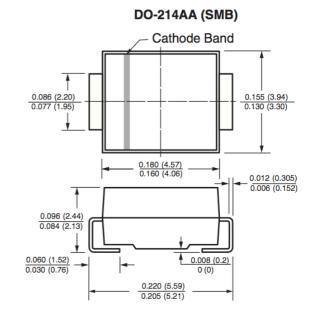
- * High reliability
- * Low leakage
- * Low forward voltage
- * High current capability
- * Ultrafast switching speed
- * High surge capability
- * Good for switching mode circuit

MECHANICAL DATA

Case: SMC Molded plastic

Epoxy: UL94V-O rate flame retardant Lead: Lead Formed for Surface Mount Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.24 gram



		SYMBOL	MURS320B	MURS340B	MURS360B	UNITS
Maximum repetitive peak reverse voltage		V_{RRM}	200	400	600	Volts
Maximum RMS voltage		V_{RMS}	140	280	420	Volts
Maximum DC blocking voltage		V_{DC}	200	400	600	Volts
Maximum average forward rectified current		I _{O(AV)}	3.0			Amps
Peak forward surge current						
8.3ms single half sine-wave superimposed on		I_{FSM}	75.0			Amps
rated load (JEDEC Method)						
Maximum instantaneous forward voltage at 3.0A DC		V_{F}	0.9	1	.3	Volts
Maximum DC reverse current	Γ _A =25°C	I _R	5.0	5	.0	μΑ
at rated DC blocking voltage	Γ _A =125°C		100.0	10	0.0	
Typical junction capacitance (NOTE 1)		CJ	15.0		pF	
Typical reverse recovery time (NOTE 2)		t _{rr}	50.0	75	5.0	ns
Typical thermal resistance (NOTE 3)		$R_{\theta JA}$	80.0		°C/W	
Operating junction and storage temperature range		T _J , T _{STG}		-55 to +150		°C

NOTES:

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- (2) Reverse recovery test conditions:IF=0.5A, IR=1.0A, IRR=0.25A
- (3) Thermal resistance from junction to ambient



Ratings and Characteristic Curves

FIG. 1 FORWARD DERATING CURVE

AVERAGE FORWARD CURRENT, (A)

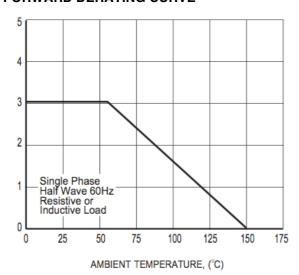


FIG. 2 PEAK FORWARD SURGE CURRENT

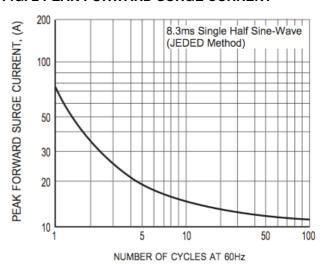


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

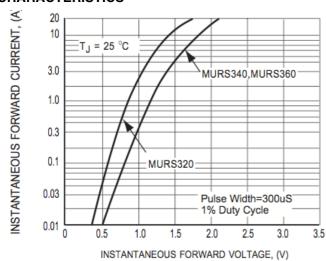


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

