

ULTRAFAST RECTIFIERS

Features

- · High reliability
- · Low leakage
- · Low forward voltage
- · High current capability
- · Ultrafast switching speed
- · High surge capability
- · Good for switching mode circuit
- · RoHS compliant package

Mechanical Data

• Epoxy: UL94V-O rate flame retardant

· Lead: Lead Formed for Surface Mount

· Polarity: Color band denotes cathode end

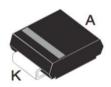
· Mounting position: Any

• Weight: 0.229 gram

Package type: SMC

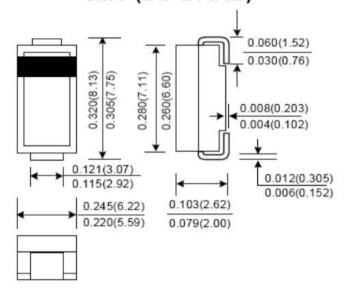
Packing & Order Information

3.000/Reel



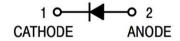


SMC (DO-214AB)



Dimensions in inches and (millimeter)

Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)								
Parameter	Symbol	MURS 320	MURS 340	MURS 360	Unit			
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	V			
Working peak reverse voltage	V _{RMS}	140	280	420	V			
Maximum DC blocking voltage	V_{DC}	200	400	600	V			
Maximum average forward rectified current	I _{O(AV)}	3.0			A			
Peak forward surge current		75			A			
8.3ms single half sine-wave superimposed on IFSM	I							
40.0 Amps	I_{FSM}							
rated load (JEDEC Method)								



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Maximum Ratings (Tc=25°C unless otherwise noted)									
Parameter	Symbol	MURS 320	MURS 340	MURS 360	Unit				
Maximum instantaneous forward voltage at 3.0A DC	$V_{\rm F}$	0.9	1.3		V				
Maximum DC reverse current TA=25°C	I_R	5.0	5.0	100.0	μΑ				
at rated DC blocking voltage TA=125°C		5.0	5.0	100.0					
Typical junction capacitance (NOTE1)	Cı	15			pF				
Typical reverse recovery time (NOTE2)	T_{RR}	35	75		ns				
Typical thermal resistance (NOTE3)	Reja	75			V				
Operating junction and storage temperature range	T _J ,T _{STG}	-55 to +150			°C/W				

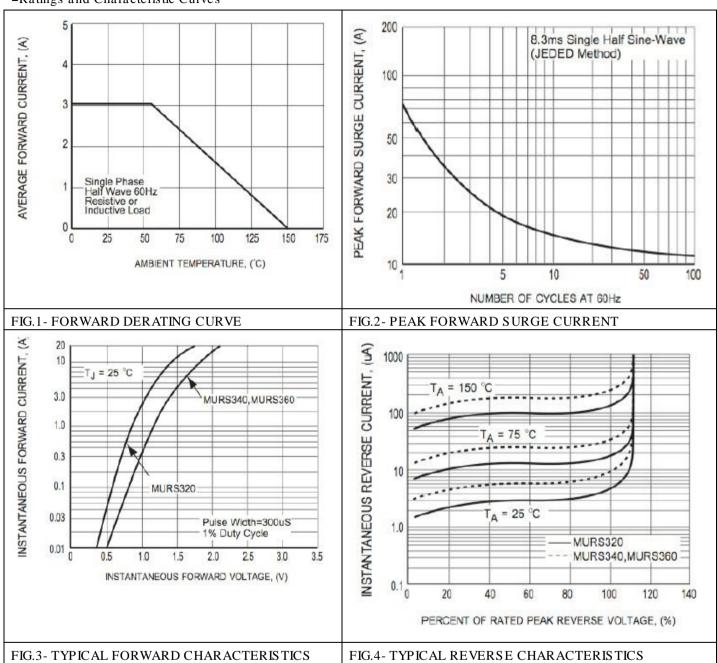
Notes

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



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■Ratings and Characteristic Curves





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