

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

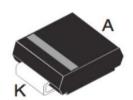
Mechanical Data

- Epoxy: UL94V-O rate flame retardant
- · Lead: Lead Formed for Surface Mount
- · Polarity: Color band denotes cathode end
- Mounting position: Any
- · Weight: 0.096 gram

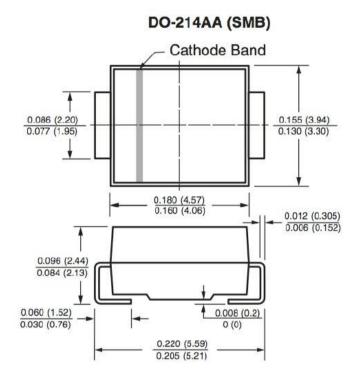
Package type: SMB

Packing & Order Information

3.000/Reel







Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)							
Parameter	Symbol	MURS 320B	MURS340B	MURS360B	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	Inave						
40.0 Amps	IFSM						
rated load (JEDEC Method)							



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Maximum Ratings (Tc=25°C unless otherwise noted)									
Parameter	Symbol	MURS 320B	MURS340B	MURS360B	Unit				
Maximum instantaneous forward voltage at 3.0A DC	$V_{\rm F}$	0.9	1.3		V				
Maximum DC reverse current TA=25°C	_	5.0	5.0		μA				
at rated DC blocking voltage TA=125°C	I_R	100.0	100.0						
Typical junction capacitance (NOTE1)	CJ		15						
Typical reverse recovery time (NOTE2)	T_{RR}	50	75		ns				
Typical thermal resistance (NOTE3)	RөJA		80						
Operating junction and storage temperature range	T _J ,T _{STG}		-55 to +150						

⁽¹⁾ Measured at 1.0 MHz and applied reverse voltage of 4.0 V D.C.

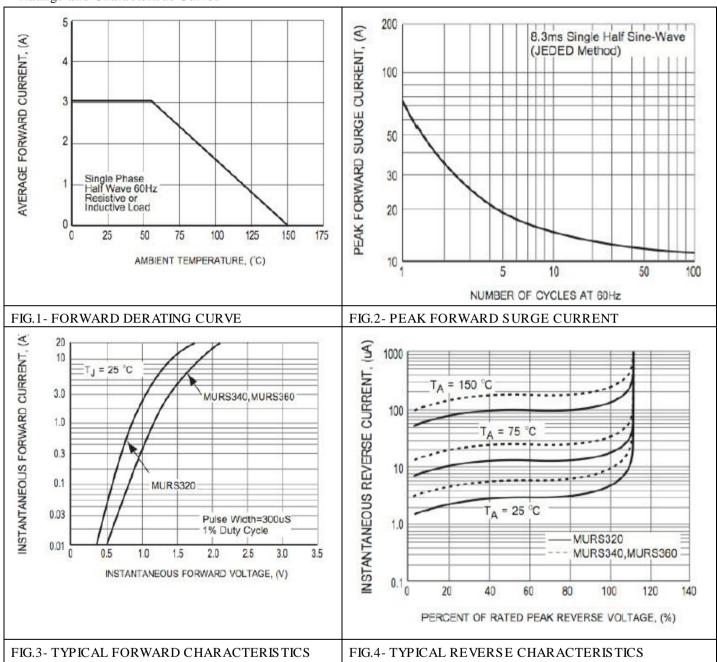
⁽²⁾ Reverse recovery test conditions:IF=0.5A, IR=1.0A, IRR=0.25A

⁽³⁾ Thermal resistance from junction to ambient



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■Ratings and Characteristic Curves





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