

FR2A THRU FR2M

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -2.0 Ampere

DO-214AA	FEATURES									
(HSMB) (Round Lead)	 The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 For surface mounted applications Low reverse leakage Built-in strain relief,ideal for automated placement High forward surge current capability High temperature soldering guaranteed: 250°C/10 seconds at terminals Glass passivated chip junction 									
		MECHANICAL DATA								
DIMENSIONS INCHES MM DIM MAX MAX MAX DIM MIN MAX MAX NOTE A .078 .116 1.98 2.95 B .075 .069 1.90 2.25 C .002 .008 .05 .20 D	Case : JEDEC DO-214AA molded plastic body over passivated chip Terminals : Solder plated, solderable per MIL-STD-750, Method 2026 Polarity : Color band denotes cathode end Mounting Position : Any Weight :0.005 ounce, 0.138 grams									
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 current derate by 20%.										
MDD Catalog Number	SYMBOLS	FR2A	FR2B	FR2D	FR2G	FR2J	FR2K	FR2M	UNITS	
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS	
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	VOLTS	
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	VOLTS	
Maximum average forward rectified current at TL=90℃	l(AV)	2.0							Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	50.0							Amps	
Maximum instantaneous forward voltage at 2.0A	Vf	1.3							Volts	
Maximum DC reverse current Ta=25℃		5.0								
at rated DC blocking voltage Ta=125℃	IR	200.0 µA							μΑ	
Maximum reverse recovery time (NOTE 1)	trr	150 250 500 ns						ns		
Typical junction capacitance (NOTE 2)	Сл	40.0						pF		
Typical thermal resistance (NOTE 3)	Reja	15.0							°C/W	
					10.0			1	0/11	

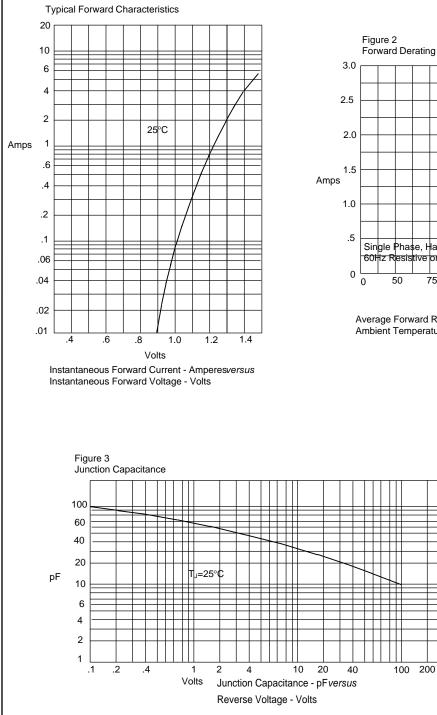
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

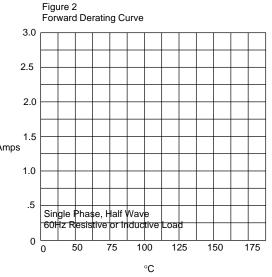
3.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

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RATINGS AND CHARACTERISTIC CURVES FR2A THRU FR2M

Figure 1





Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

400

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1000

