

## **RS2A THRU RS2M**

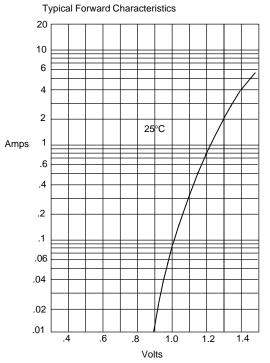
## SURFACE MOUNT FAST RECOVERY RECTIFIER

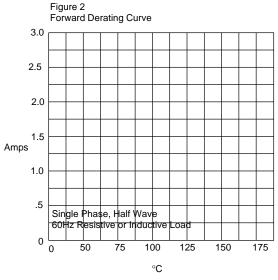
Reverse Voltage - 50 to 1000 Volts Forward Current -2.0 Ampere

DO-214AC (HSMA) (High Profile)		FEATURES • 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								
$ \begin{array}{c c} & & & & \\ \hline \end{array} \\ \hline \\ \end{array} \\ \hline \end{array} \\ \hline \\ \end{array} \\ \\ \\ \end{array} \\ \hline \\ \\ \end{array} \\ \\ \\ \end{array} \\ \\ \\ \\$	MECHANICAL DATA									
DIMENSIONS     INCHES   MM     DIM   MAX   MIN   MAX     A   .007   .069   1.92   .057     B   .067   .069   1.92   .225     B   .067   .069   1.92   .225     D   .002   .05   .20   .001     D   .067   .069   1.40   .05     B   .067   .096   .05   .20     D   .02   .05   .20   .05     E   .035   .065   .89   1.40     F   .0065   .096   1.65   2.45     G   .205   .224   5.21   5.69     H   .180   .180   .407   .457     J   .100   .112   2.57   .284		Case : JEDEC DO-214AC 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 :0.002 ounce, 0.07 grams								
MAXIMUM RATINGS AN	D ELEC	TRICA	L CH	ARA	CTER	ISTIC	S			
Ratings at 25°C ambient temperature unless otherwise sp Single phase half-wave 60Hz,resistive or inductive load,fo	ecified.						_			
TYPE NUMBER	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	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 C	l(AV)	2.0					Amp			
		50.0								
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм				50.0				Amps	
5	Ifsm Vf				50.0				Amps Volts	
8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	VF								Volts	
8.3ms single half sine-wave superimposed on rated load (JEDEC Method) Maximum instantaneous forward voltage at 2.0A					1.3					
8.3ms single half sine-wave superimposed on rated load (JEDEC Method) Maximum instantaneous forward voltage at 2.0A Maximum DC reverse current Ta=25°C	VF		15	0	1.3 5.0	250	50	00	Volts	
8.3ms single half sine-wave superimposed on   rated load (JEDEC Method)   Maximum instantaneous forward voltage at 2.0A   Maximum DC reverse current Ta=25°C   at rated DC blocking voltage Ta=100°C	Vf Ir		15	0	1.3 5.0	250	50	00	Volts μA	
8.3ms single half sine-wave superimposed on rated load (JEDEC Method)   Maximum instantaneous forward voltage at 2.0A   Maximum DC reverse current TA=25℃   at rated DC blocking voltage TA=100℃   Maximum reverse recovery time (NOTE 1)	VF IR trr		15	0	1.3 5.0 50.0	250	50	00	Volts μA ns	

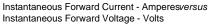
3.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

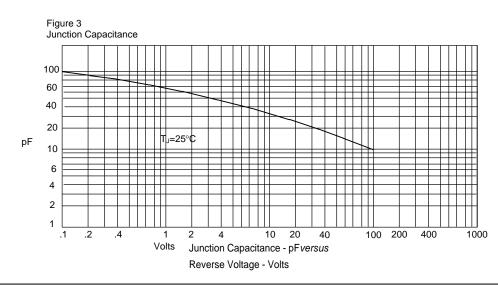
Figure 1

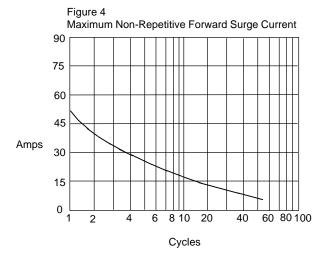




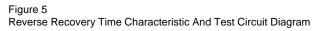
Average Forward Rectified Current - Amperes/ersus Ambient Temperature  $\ \ ^\circ C$ 

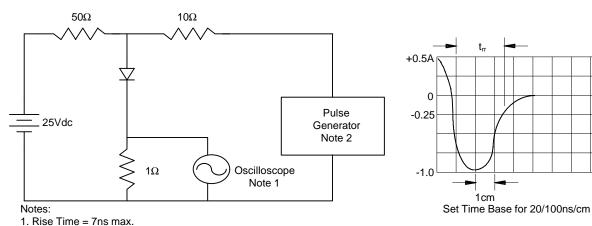






Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles





Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max. Source impedance = 50 ohms 3. Resistors are non-inductive