

## DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU

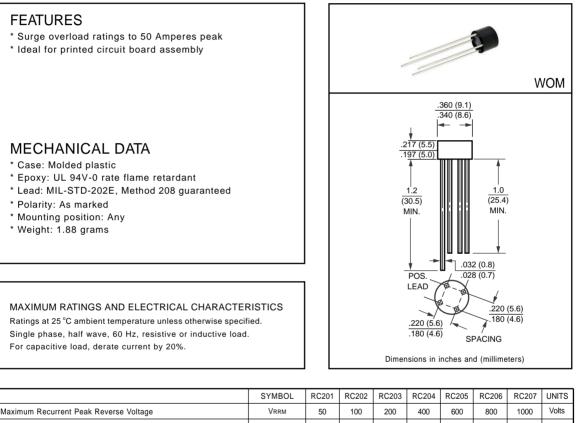
**RC201** 

RC207

## TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 2.0 Amperes



	STIVIDUL	RC201	KC202	R0203	RC204	RC205	RC200	R0207	
	Vrrm	50	100	200	400	600	800	1000	Volts
	Vrms	35	70	140	280	420	560	700	Volts
	VDC	50	100	200	400	600	800	1000	Volts
A = 25°C	lo	2.0						Amps	
If sine-wave	IFSM	50						Amps	
at 1.0A DC	VF	1.1					Volts		
@TA = 25°C	- Ir	10							uAmps
C Blocking Voltage per element @TA = 100°C		500							
I <sup>2</sup> t Rating for Fusing (t<8.3ms)		10							A <sup>2</sup> Sec
ypical Junction Capacitance (Note1)		25							pF
	RθJA	40				°C/W			
	TJ	-55 to + 125				°C			
	Tstg	-55 to + 150							°C
1	at 1.0A DC @TA = 25°C	VRRM    VRMS    VC    A = 25°C    Io    If sine-wave    If sine-wave    IFSM    at 1.0A DC    WF    @TA = 25°C    IR    IR    CJ    R0JA    TJ	VRRM  50    VRMS  35    VDC  50    A = 25°C  Io    If sine-wave  IFSM    at 1.0A DC  VF    @TA = 25°C  IR    @TA = 100°C  IR    CJ  CJ    R0JA  TJ	$\begin{tabular}{ c c c c c } \hline V & V & V & V & S & S & 100 \\ \hline V & V & S & 35 & 70 \\ \hline V & V & S & 50 & 100 \\ \hline V & S & 50 & 100 \\ \hline V & S & 50 & 100 \\ \hline & V & S & S & S & S & S \\ \hline & & I & S & S & S & S & S \\ \hline & & & I & S & S & S & S & S \\ \hline & & & & I & S & S & S & S \\ \hline & & & & & I & S & S & S & S \\ \hline & & & & & & I & S & S & S \\ \hline & & & & & & I & S & S & S \\ \hline & & & & & & & I & S & S \\ \hline & & & & & & & & I & S & S \\ \hline & & & & & & & & & I & S \\ \hline & & & & & & & & & & I & S \\ \hline & & & & & & & & & & & \\ \hline & & & & &$	VRRM  50  100  200    VRMS  35  70  140    VDC  50  100  200    A = 25°C  Io  100  200    If sine-wave  IFSM	$\begin{tabular}{ c c c c c c } \hline V & V & V & V & S & S & 100 & 200 & 400 \\ \hline V & V & S & 35 & 70 & 140 & 280 \\ \hline V & V & S & 50 & 100 & 200 & 400 \\ \hline V & V & S & 50 & 100 & 200 & 400 \\ \hline V & S & S & S & S & S & S & S \\ \hline & V & S & S & S & S & S & S & S \\ \hline & & I & S & S & S & S & S & S & S \\ \hline & & & I & S & S & S & S & S & S \\ \hline & & & & I & S & S & S & S & S \\ \hline & & & & & I & S & S & S & S \\ \hline & & & & & & I & S & S & S & S \\ \hline & & & & & & & I & S & S & S \\ \hline & & & & & & & & I & S & S & S \\ \hline & & & & & & & & & I & S & S \\ \hline & & & & & & & & & & & I & S & S \\ \hline & & & & & & & & & & & & & I & S \\ \hline & & & & & & & & & & & & & & & & & \\ \hline & & & &$	$\begin{tabular}{ c c c c c c } \hline V & V & V & S & 100 & 200 & 400 & 600 \\ \hline V & V & S & 35 & 70 & 140 & 280 & 420 \\ \hline V & V & S & 50 & 100 & 200 & 400 & 600 \\ \hline V & V & S & 50 & 100 & 200 & 400 & 600 \\ \hline V & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S \\ \hline S & S & S & S & S & S & S & S & S & S$	$\begin{tabular}{ c c c c c c c } \hline V_{RRM} & 50 & 100 & 200 & 400 & 600 & 800 \\ \hline V_{RMS} & 35 & 70 & 140 & 280 & 420 & 560 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 & 800 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 & 800 \\ \hline & V_{DC} & 50 & 100 & 200 & 400 & 600 & 800 \\ \hline & V_{DC} & 50 & 100 & 200 & 400 & 600 & 800 \\ \hline & & & & & & & & & & & & \\ \hline & & & &$	$\begin{tabular}{ c c c c c c c c } \hline V_{RRM} & 50 & 100 & 200 & 400 & 600 & 800 & 1000 \\ \hline V_{RMS} & 35 & 70 & 140 & 280 & 420 & 560 & 700 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 & 800 & 1000 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 & 800 & 1000 \\ \hline & V_{DC} & 50 & 100 & 2.0 & $$$$ $$$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$

NOTES : 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from Junction to Ambient and from junction to lead mounted on P.C.B. with 0.47 x 0.47" (12x12mm) copper pads.

## **RATING AND CHARACTERISTIC CURVES (RC201 THRU RC207)**

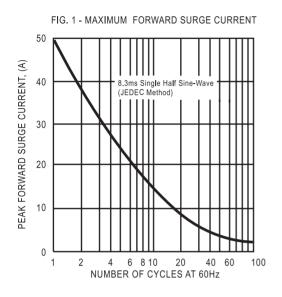


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

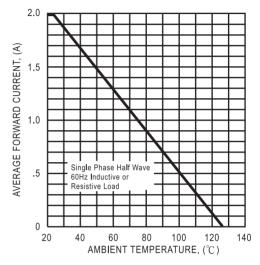
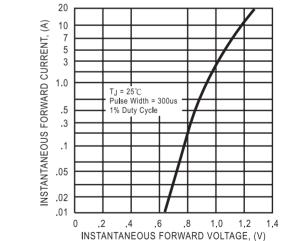
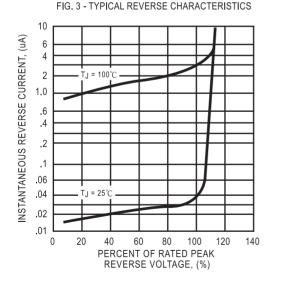


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





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