



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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STANDARD RECOVERY, HIGH CURRENT 3-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES

- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance
- High surge ratings

QUICK REFERENCE DATA

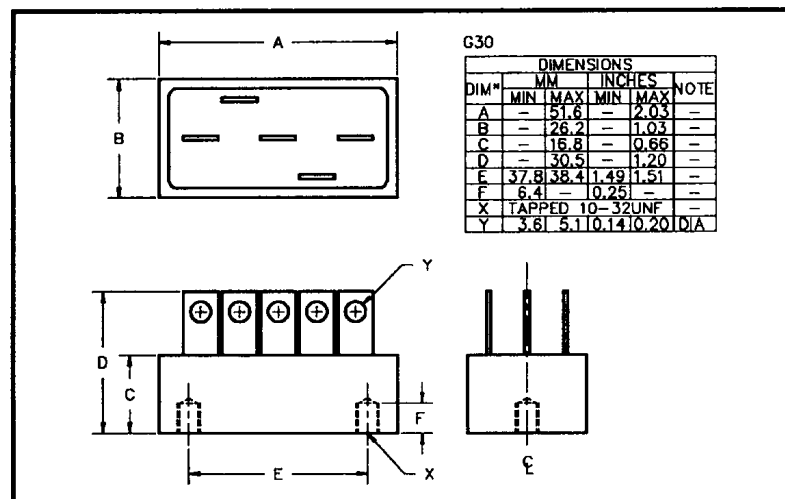
- $V_R = 50V - 600V$
- $I_F = 38A$
- $I_R = 9.0\mu A$
- $I_{FSM} = 375A$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)}$						1 Cycle Surge Current	
		@ case temperature			@ ambient temperature			I_{FSM} @ $t_p = 8.3mS$	
		@ 55°C	@ 100°C	@ 125°C	@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C
		Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SC3BK05	50								
SC3BK1	100								
SC3BK2	200	38	24	17.5	13	10	6.0	375	300
SC3BK4	400								
SC3BK6	600								

$R_{\theta JC} = 1.1^{\circ}C/W$

MECHANICAL



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ELECTRICAL CHARACTERISTICS

Device Type	Reverse Leakage Current $I_R @ V_{RWM}$		Maximum Forward Voltage $V_F @ 9A/leg @ 25^\circ C$	Maximum Reverse Recovery Time $t_{rr} @ 25^\circ C$	Maximum operating & storage temp range. $T_{OP} \quad T_{STG}$	
	@ 25°C	@ 100°C			T_{OP}	T_{STG}
	μA	μA	Volts	μS	$^\circ C$	
SC3BK05						
SC3BK1						-55
SC3BK2	9.0	180	1.0	2.0		to
SC3BK4						+150
SC3BK6						

¹ Measured on discrete devices prior to assembly

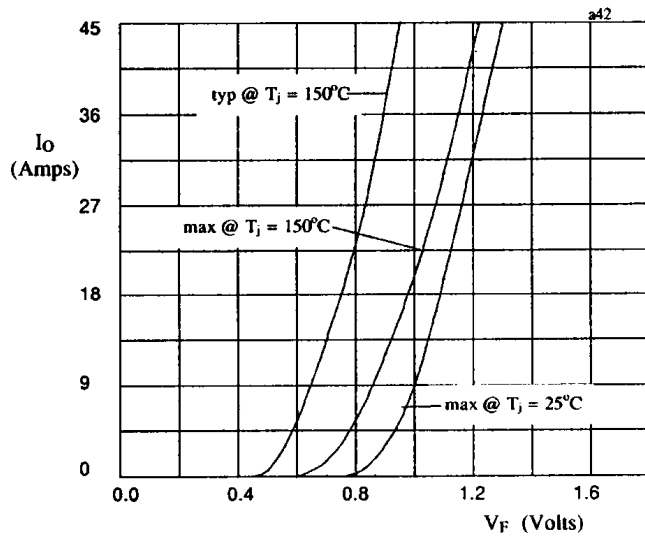


Fig 1. Forward voltage drop against output current per leg

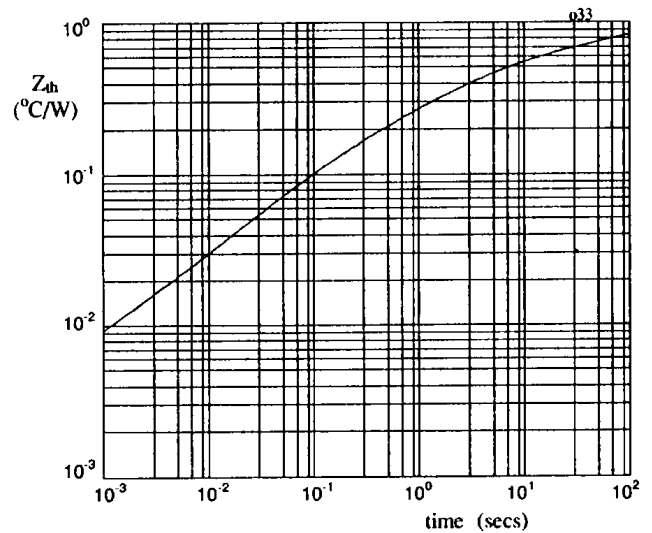


Fig 2. Typical transient thermal impedance characteristic per leg