

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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SLA5075

3-phase DC motor 200V AC direct drive External dimensions (A) ··· SLA (15-pin)

Absolute maximum ratings

T	a=	=2	5°	C

	5 (1.5				
Symbol	Ratings				
VDSS	500				
Vgss	±30				
ΙD	±5				
ID(pulse)	±10 (PW≤1ms, Du≤1%)				
Eas*	45				
Рт	5 (Ta=25°C, with all circuits operating, without heatsink)				
	60 (Tc=25°C, with all circuits operating, with infinite heatsink)				
hetaj-a	25 (Junction-Air, Ta=25°C, with all circuits operating)				
hetaj-c	2.08 (Junction-Case, Tc=25°C, with all circuits operating)				
Tch	150				
Tstg	-40 to +150				
*: Von 20V I 2 4mH In EA undamped Po E00 and Fig E on page 15					

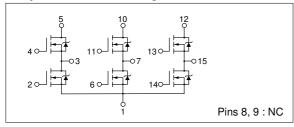
 $^{^{\}star}$: Vdd=30V, L=3.4mH, ld=5A, unclamped, Rg=50 Ω , see Fig. E on page 15.

Electrical characteristics

(Ta=25°C)

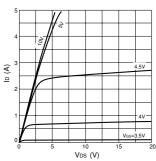
Cumbal	Specification		Unit	Conditions		
Symbol	min	typ	max	Unit	Conditions	
V(BR)DSS	500			V	ID=100μA, VGS=0V	
Igss			±100	nA	Vgs=±30V	
IDSS			100	μΑ	VDS=500V, VGS=0V	
V _{TH}	2.0		4.0	V	VDS=10V, ID=1mA	
Re(yfs)	2.4	4.0		S	VDS=10V, ID=2.5A	
RDS(ON)		1.05	1.4	Ω	Vgs=10V, ID=2.5A	
Ciss		770		pF	V _{DS} =10V, f=1.0MHz,	
Coss		290		pF	Vgs=0V	
td(on)		20		ns	ID=2.5A,	
tr		25		ns	V _{DD} ≑200V,	
td(off)		70		ns	RL= 80Ω , Vgs= $10V$,	
tf		65		ns	see Fig. 3 on page 16.	
VsD		1.1	1.5	V	IsD=5A, VGS=0V	
trr		75		ns	IsD=2.5A, di/dt=100A/μs	

■Equivalent circuit diagram

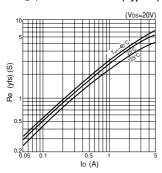


Characteristic curves

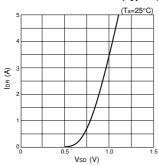
In-Vps Characteristics (Typical)



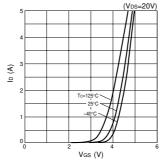
Re(yfs)-ID Characteristics (Typical)



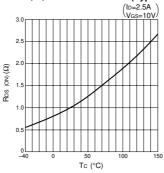
IDR-Vsb Characteristics (Typical)



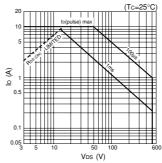
In-Vgs Characteristics (Typical)



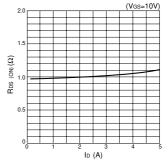
RDS(ON)-Tc Characteristics (Typical)



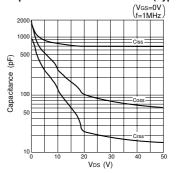
Safe Operating Area (SOA)



RDS(ON)-ID Characteristics (Typical)



Capacitance-Vos Characteristics (Typical)



P⊤-Ta Characteristics

