

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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With built-in flywheel diode

Absolute maximum ratings

Absolute	(Ta=25°C)			
Symbol	Ratings	Unit		
Vсво	-100	V		
VCEO	-100	V		
VEBO	VEBO -6			
Ic	Ic5			
ICP	ICP -8 (PW≤1ms, Du≤50%)			
Ів	-0.5	Α		
lF	–5 (PW≤0.5ms, Du≤25%)	Α		
IFSM	u –8 (PW≤10ms, single)			
VR	120	V		
	5 (Ta=25°C)	W		
Рт	25 (Tc=25°)			
Viso	Viso 1000 (Between fin and lead pin, AC)			
Tj	Tj 150			
Tstg	Tstg -40 to +150			
hetaj-c	θj-c 5			

Electrical characteristics

Specification **Symbol** Unit **Conditions** max VcB=-100V Ісво -10 μΑ -10 VEB=-6V mA **I**EBO -100 VCEO ٧ Ic=-10mA hfe 2000 5000 15000 Vce=-2V, Ic=-3A -1.0 -1.5 Vce(sat) Ic=-3A, IB=-6mA V_{BE}(sat) -1.6-2.0 ٧

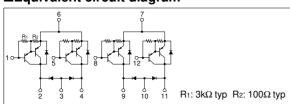
Diode for flyback voltage absorption

(Ta=25°C)

(Ta=25°C)

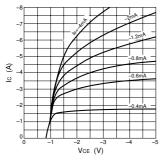
Cumahal	Specification			I I to i A	O a maliti a ma	
Symbol	min	typ	max	Unit	Unit Co	Conditions
VR	120			V	IR=10μA	
VF			1.2	V	IF=1A	
IR			10	μΑ	V _R =120V	
trr		100		ns	IF=±100mA	

■Equivalent circuit diagram

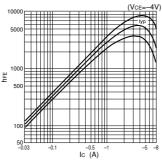


Characteristic curves

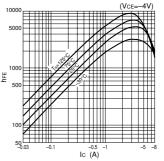
Ic-VcE Characteristics (Typical)



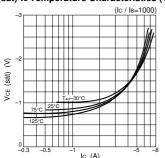
hfe-Ic Characteristics (Typical)



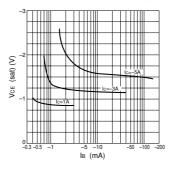
hfe-Ic Temperature Characteristics (Typical)



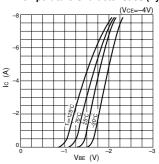
VcE(sat)-Ic Temperature Characteristics (Typical)



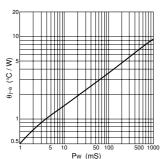
Vce(sat)-IB Characteristics (Typical)



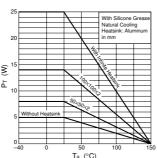
Ic-VBE Temperature Characteristics (Typical)



θ_{j-a}-PW Characteristics



P_T-T_a Characteristics



Safe Operating Area (SOA)

