# imall

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.

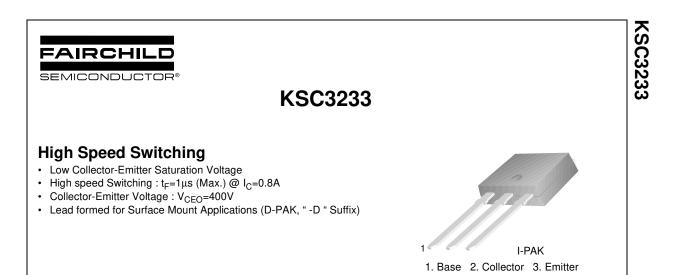
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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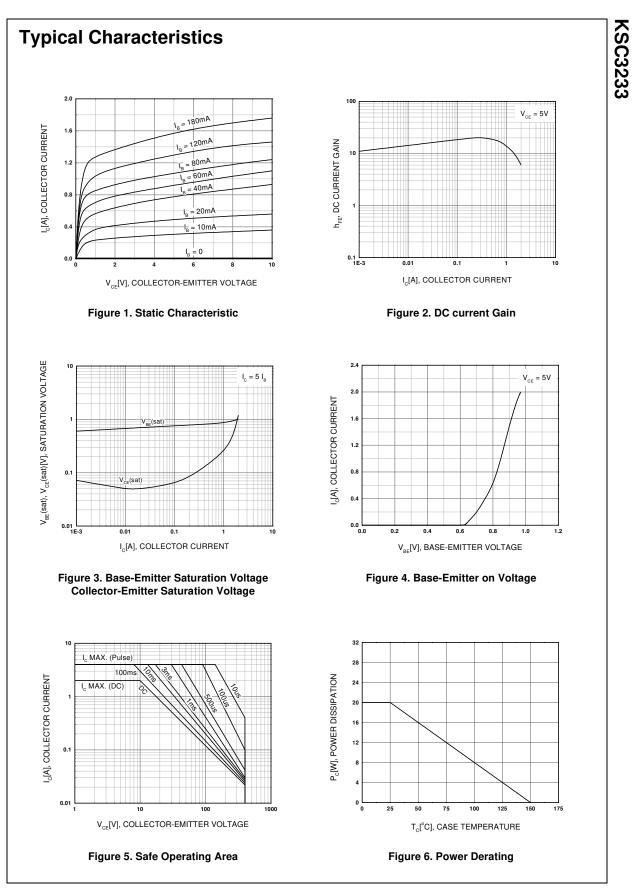
### NPN Triple Diffused Planar Silicon Transistor

Absolute	Maximum	Ratings	T <sub>C</sub> =25°C unless otherwise noted
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Symbol	Parameter	Value	Units	
V <sub>CBO</sub>	Collector-Base Voltage	500	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	400	V	
V <sub>EBO</sub>	Emitter-Base Voltage	7	V	
I <sub>C</sub> Collector Current		2	Α	
I <sub>B</sub>	Base Current	0.5	Α	
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	20	W	
P <sub>C</sub> Collector Dissipation (T <sub>a</sub> =25°C)		1	W	
T <sub>J</sub> Junction Temperature		150	°C	
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C	

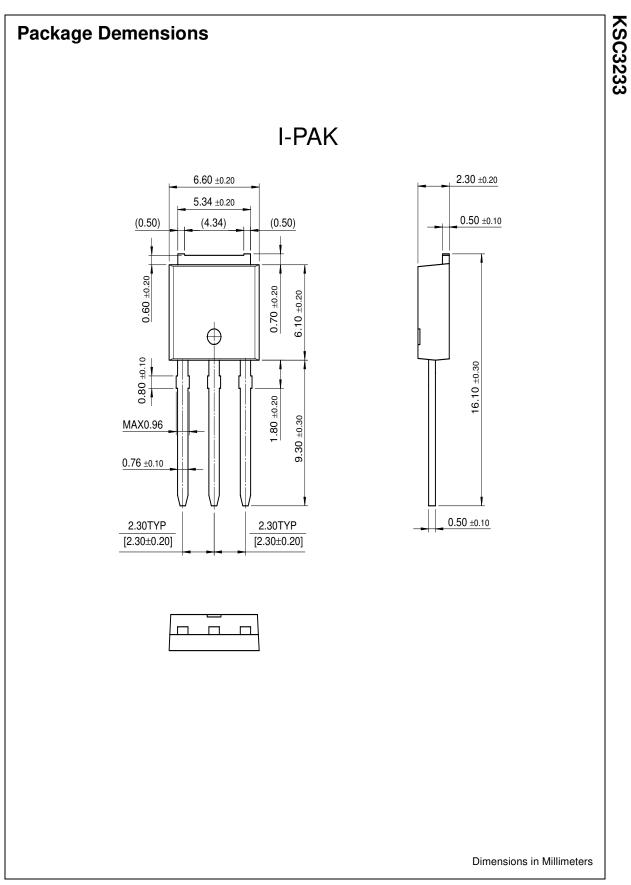
#### Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV <sub>CEO</sub>	Collector-Base Breakdown Voltage	$I_{\rm C} = 1 {\rm mA}, \ I_{\rm E} = 0$	500		V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 0$	400		V
I <sub>CBO</sub>	Collector Cut-off Current	$V_{CB} = 400V, I_E = 0$		100	μΑ
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = 7V, I_{C} = 0$		1	mA
h <sub>FE1</sub>	DC Current Gain	$V_{CE} = 5V, I_{C} = 0.1A$	20		
h <sub>FE2</sub>		$V_{CE} = 5V, I_{C} = 1A$	8		
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	$I_{\rm C} = 1$ A, $I_{\rm B} = 0.2$ A		1	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	$I_{\rm C} = 1$ A, $I_{\rm B} = 0.2$ A		1.5	V
t <sub>ON</sub>	Turn ON Time	$V_{CC} = 200V, I_{C} = 0.8A$		1	μs
t <sub>STG</sub>	Storage Time	$1_{B1} = -I_{B2} = 0.08A$		2.5	μs
t <sub>F</sub>	Fall Time	$R_L = 250\Omega$		1	μs



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