

2SC4458L (3DD4458L)

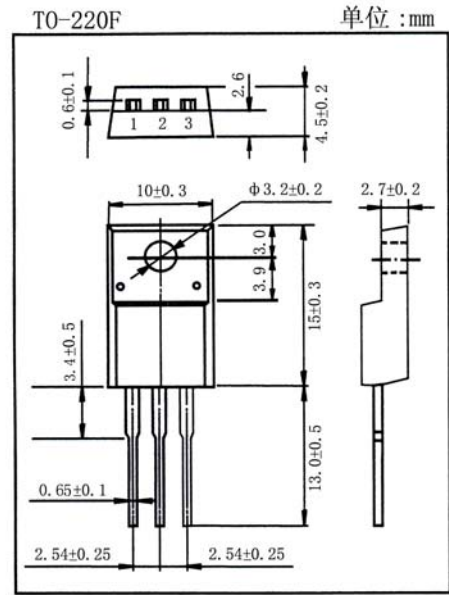
硅 NPN 半导体三极管/SILICON NPN TRANSISTOR

用途:开关调整, 高压开关, 快速 DC-DC 转换。

Purpose: Switching regulator applications, High voltage switching applications, High speed DC-DC converter applications.

极限参数/Absolute maximum ratings(Ta=25°C)

参数符号 Symbol	数值 Rating	单位 Unit
V <sub>CBO</sub>	900	V
V <sub>CEO</sub>	500	V
V <sub>EBO</sub>	9.0	V
I <sub>C</sub>	8.0	A
I <sub>B</sub>	4.0	A
I <sub>E</sub>	12	A
P <sub>C</sub> (T <sub>c</sub> =25°C)	40	W
T <sub>j</sub>	150	°C
T <sub>stg</sub>	-55~150	°C



引脚: 1. B 2. C 3. E

电性能参数/Electrical characteristics(Ta=25°C)

参数符号 Symbol	测试条件 Test condition		数值 Rating			单位 Unit
			最小值 Min	典型值 Typ	最大值 Max	
V <sub>CBO</sub>	I <sub>C</sub> =1mA	I <sub>B</sub> =0	900			V
V <sub>CEO</sub>	I <sub>C</sub> =10mA	I <sub>B</sub> =0	500			V
I <sub>CEO</sub>	V <sub>CE</sub> =400V	I <sub>E</sub> =0			250	μ A
I <sub>EBO</sub>	V <sub>EB</sub> =7V	I <sub>C</sub> =0			100	μ A
I <sub>CBO</sub>	V <sub>CB</sub> =700V	I <sub>C</sub> =0			100	μ A
h <sub>FE(1)</sub>	V <sub>CE</sub> =5.0V	I <sub>C</sub> =2.0A	25		40	
h <sub>FE(2)</sub>	V <sub>CE</sub> =5.0V	I <sub>C</sub> =5.0A	8.0			
V <sub>CE(sat)(1)</sub>	I <sub>C</sub> =2.0A	I <sub>B</sub> =0.4A			0.3	V
V <sub>CE(sat)(2)</sub>	I <sub>C</sub> =5.0A	I <sub>B</sub> =1.0A			0.6	V
V <sub>CE(sat)(3)</sub>	I <sub>C</sub> =8.0A	I <sub>B</sub> =2.0A			1.2	V
V <sub>BE(sat)(1)</sub>	I <sub>C</sub> =2.0A	I <sub>B</sub> =0.4A			1.1	V
V <sub>BE(sat)(2)</sub>	I <sub>C</sub> =5.0A	I <sub>B</sub> =1.0A			1.2	V
f <sub>T</sub>	V <sub>CE</sub> =10V	I <sub>C</sub> =0.5A	4.0			MHz
t <sub>S</sub>	V <sub>CC</sub> =125V I <sub>C</sub> =5A I <sub>B1</sub> =-I <sub>B2</sub> =1A				3.5	μ s
t <sub>F</sub>	R <sub>L</sub> =50 Ω				0.7	μ s