

isc Silicon NPN Power Transistor

DESCRIPTION

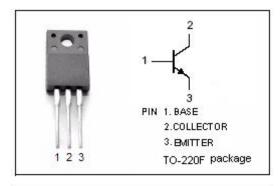
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 550V(Min)
- · High Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

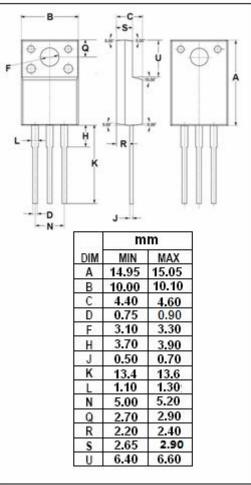
APPLICATIONS

 Designed for switching regulator and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	900	V	
V _{CEO}	Collector-Emitter Voltage	550	V	
V _{EBO}	Emitter-Base Voltage	7	V	
lc	Collector Current-Continuous	5	Α	
Ісм	Collector Current-Peak	10	Α	
I _B	Base Current-Continuous	2.5	Α	
Pc	Collector Power Dissipation @Tc=25°C	35	W	
TJ	Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	







isc Silicon NPN Power Transistor

2SC4518

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

Tj=25°C unless otherwise specified									
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	550			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.8A; I _B = 0.36A			0.5	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1.8A; I _B = 0.36A			1.2	V			
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			100	μА			
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			100	μА			
h _{FE}	DC Current Gain	I _C = 1.8A; V _{CE} = 4V	10		25				
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		50		pF			
f _T	Current-Gain—Bandwidth Product	I _E = -0.35A; V _{CE} = 12V		6		MHz			
Switching Times									
ton	Turn-On Time				0.7	μ S			
t _{stg}	Storage Time	I_{C} = 1.8A; I_{B1} = 0.27A; I_{B2} = -0.9A; V_{CC} = 250V; R_{L} = 139 Ω			4.0	μS			
t _f	Fall Time				0.5	μS			



isc Silicon NPN Power Transistor

2SC4518



NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

isc Website: www.iscsemi.cn