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2SH26

Silicon N Channel IGBT High Speed Power Switching

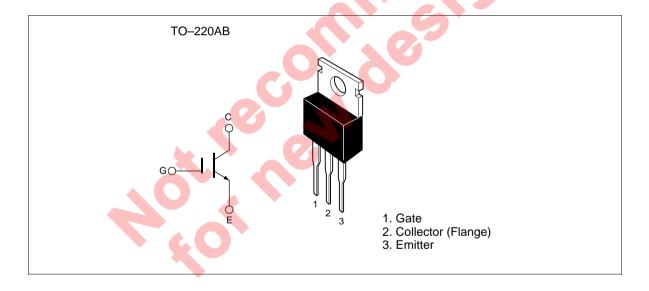


ADE-208-788A(Z) 2nd. Edition May 1999

Features

- High speed switching
- Low on-voltage

Outline



2SH26

Absolute Maximum Ratings (Ta = 25°C)

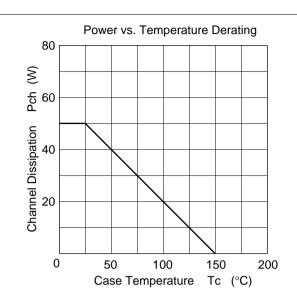
Item	Symbol	Ratings	Unit
Collector to Emitter voltage	V _{CES} 600		V
Gate to Emitter voltage	V_{GES}	±20	V
Collector current	I _c	10	Α
Collector peak current	ic(peak)	20	Α
Collector dissipation	P _C Note1	50	W
Channel temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

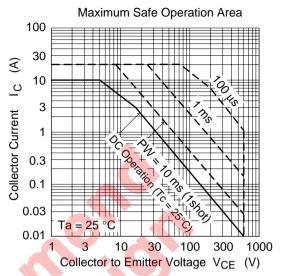
Note: 1. Value at Tc = 25°C

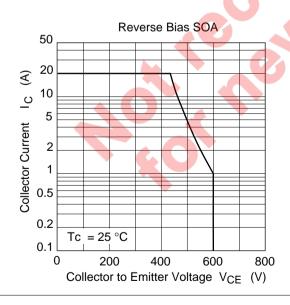
Electrical Characteristics ($Ta = 25^{\circ}C$)

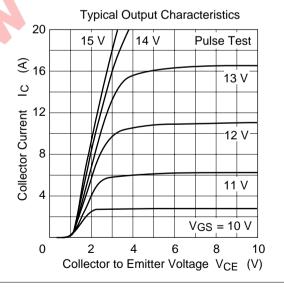
Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Zero gate voltage collector current	I _{CES}	_	-	100	μА	$V_{CE} = 600V, V_{GE} = 0$
Gate to emitter leak current	I _{GES}	_	-	±1	μΑ	$V_{GE} = \pm 20 \text{ V}, V_{CE} = 0$
Gate to emitter cutoff voltage	$V_{\text{GE(off)}}$	6.0		8.0	V	$I_{\rm C} = 10 {\rm mA}, V_{\rm CE} = 10 {\rm V}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$		2.1	2.6	V	$I_{\rm C} = 10 {\rm A}, \ V_{\rm GE} = 15 {\rm V}$
Input capacitance	Cies	9	620		pF	$V_{CE} = 10V, V_{GE} = 0$ f = 1MHz
Switching time	t,	—	140	_	ns	I _C = 10A
	t _{on}	-0	215	_	ns	$R_L = 30 \Omega$
	t _r	A	300	600	ns	$V_{GS} = \pm 15V$
	t _{off}		380	760	ns	$Rg = 50 \Omega$

Main Characteristics

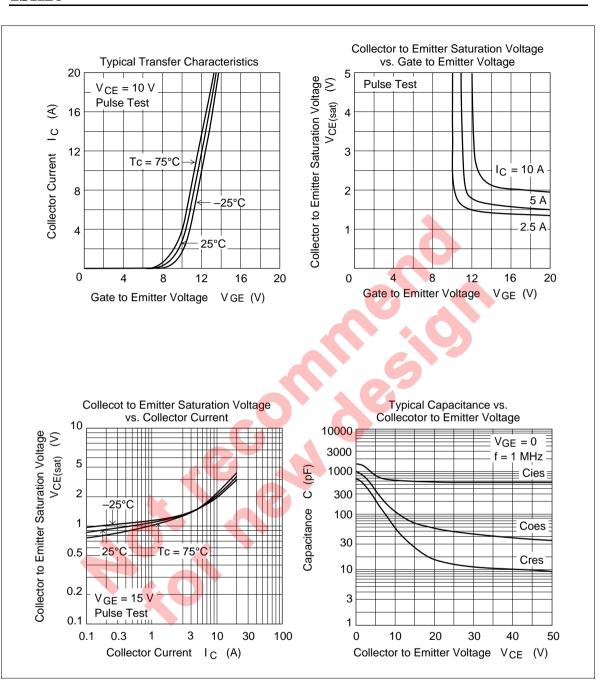


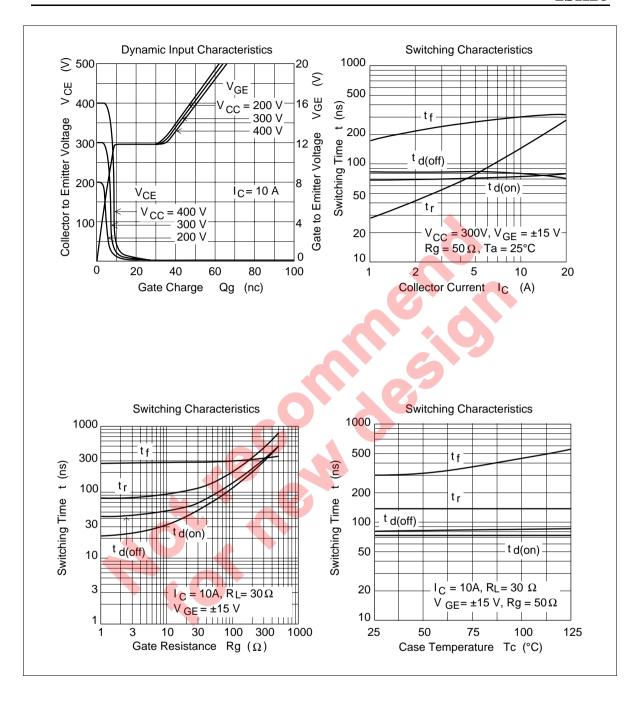


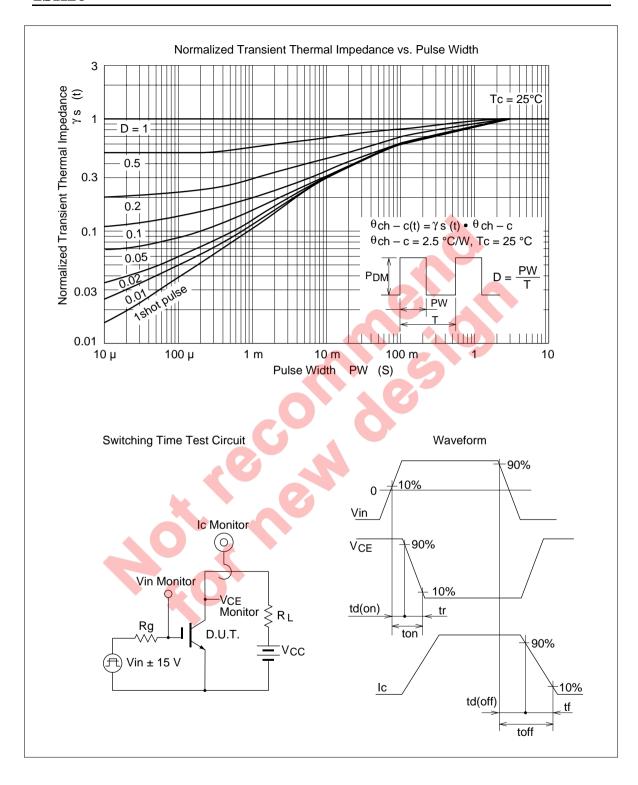




2

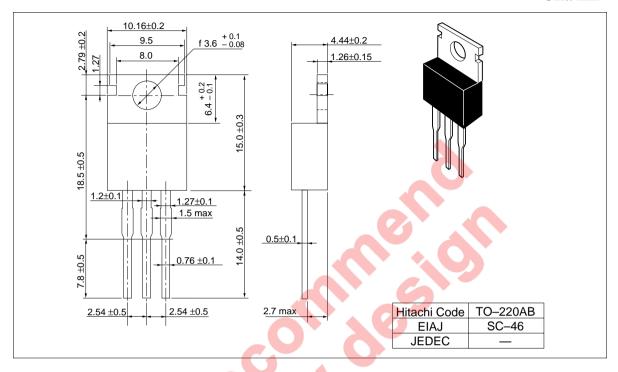






Package Dimensions

Unit: mm



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