

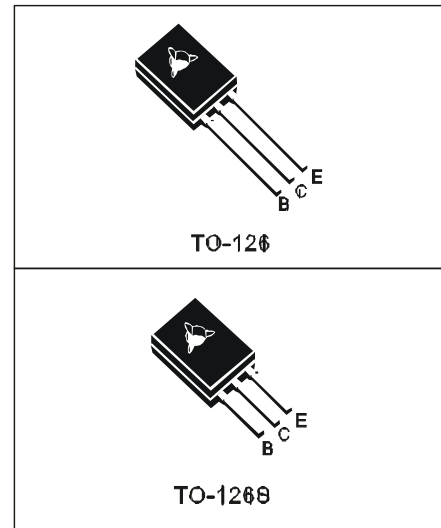
**FEATURES** ■HIGH VOLTAGE CAPABILITY ■HIGH SPEED SWITCHING ■WIDE SOA ■RoHS COMPLIANT

**APPLICATION:** ■FLUORESCENT LAMP ■ELECTRONIC BALLAST ■ELECTRONIC TRANSFORMER

**Tc=25 C**

**Absolute Maximum Ratings Tc=25 C TO-126/TO-126S**

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	$V_{CBO}$	600	V
Collector-Emitter Voltage	$V_{CEO}$	400	V
Emitter- Base Voltage	$V_{EBO}$	9	V
Collector Current	$I_C$	1.2	A
Total Power Dissipation	$P_C$	25	W
Junction Temperature	$T_J$	150	C
Storage Temperature	$T_{stg}$	-65-150	C

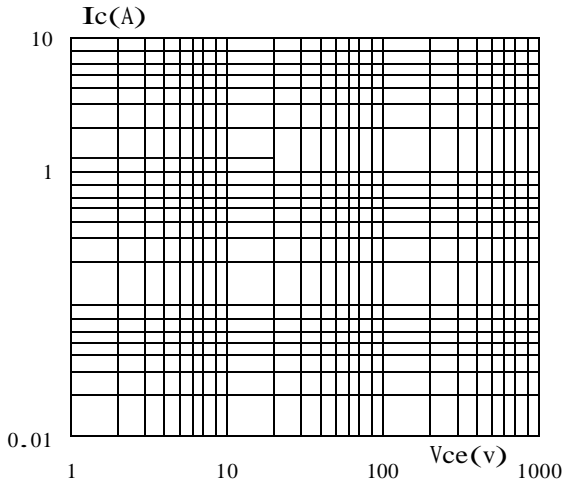


**Tc=25 C**

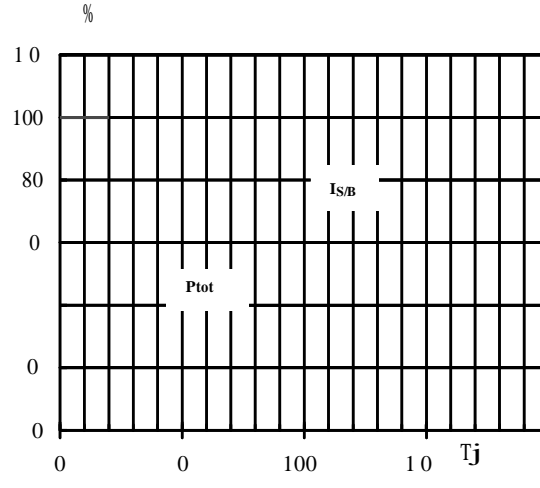
**Electronic Characteristics Tc=25 C**

CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Collector-Base Cutoff Current	$I_{CBO}$	$V_{CB}=600V$		100	$\mu A$
Collector-Emitter Cutoff Current	$I_{CEO}$	$V_{CE}=400V, I_B=0$		250	$\mu A$
Collector-Emitter Voltage	$V_{CEO}$	$I_C=10mA, I_B=0$	400		V
Emitter- Base Voltage	$V_{EBO}$	$I_E=1mA, I_C=0$	9		V
Collector-Emitter Saturation Voltage	$V_{cesat}$	$I_C=0.5A, I_B=0.1A$		0.5	V
		$I_C=1.0A, I_B=0.5A$		0.6	
Base-Emitter Saturation Voltage	$V_{besat}$	$I_C=0.5A, I_B=0.1A$		1.2	V
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=1mA$	7		
		$V_{CE}=10V, I_C=0.1A$	10	40	
		$V_{CE}=5V, I_C=1A$	5		
Storage Time	$t_s$	$V_{CC}=5V, I_C=0.25A, (UI9600)$	1.5	2.5	s
Falling Time	$t_f$				

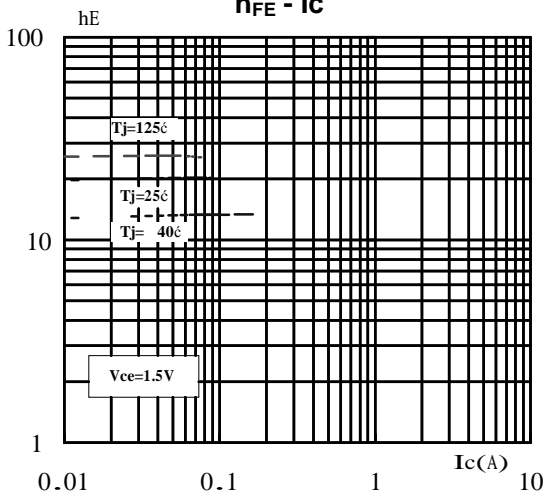
**SOA (DC)**



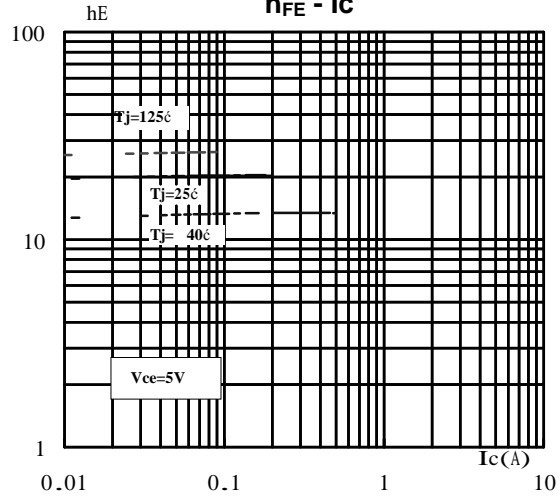
**Pc Tj**



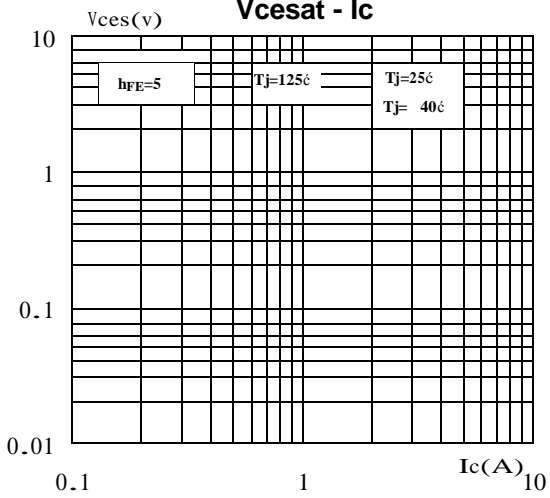
**hFE - Ic**



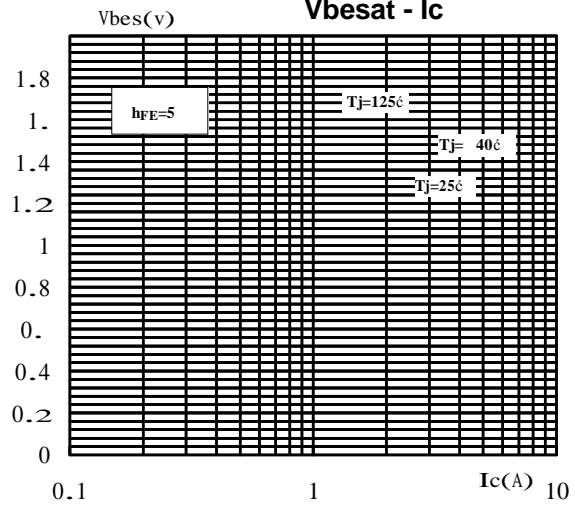
**hFE - Ic**



**Vcesat - Ic**



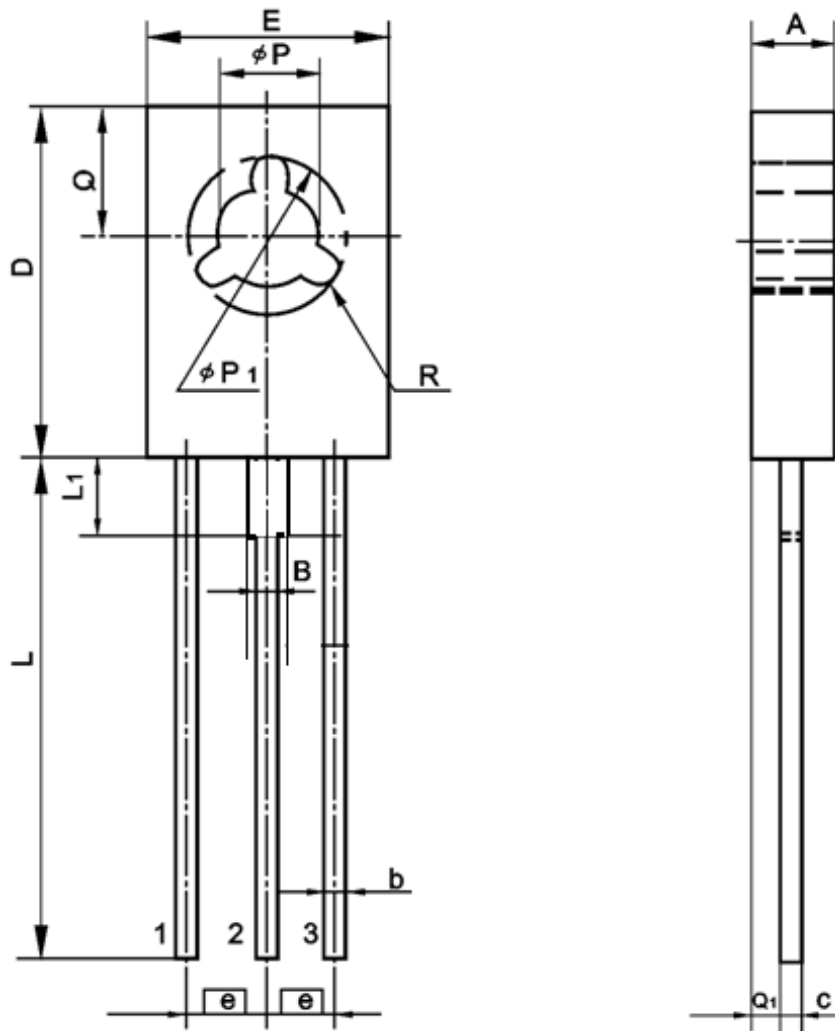
**Vbesat - Ic**



### TO-126 TO-126 MECHANICAL DATA

UNIT: mm

SYMBOL	min	nom	max	SYMBOL	min	nom	max
A	2.30		2.80	L	15.00		16.50
B	1.15		1.42	L1	1.50		2.54
b	0.65		0.90	$\phi P$	2.90		3.60
c	0.45		0.65	$\phi P1$		5.00	
D	10.50		11.10	Q	3.60		4.40
E	7.20		7.80	Q1	0.90		1.50
e		2.29		R		0.50	



### TO-126S TO-126S MECHANICAL DATA

UNIT: mm

SYMBOL	min	nom	max	SYMBOL	min	nom	max
A	2.30		2.80	L	<b>3.20</b>		<b>3.60</b>
B	1.15		1.42	L1	1.50		2.54
b	0.65		0.90	$\phi P$	2.90		<b>3.60</b>
c	<b>0.40</b>		<b>0.65</b>	$\phi P1$		5.00	
D	10.50		11.10	Q	3.60		4.40
E	7.20		7.80	Q1	0.90		1.50
e		2.29		R		0.50	

