

Absolute Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Collector-Emitter Voltage (V _{BE} = 0V)	V_{CES}	700	V
Collector-Emitter Voltage	$V_{\sf CEO}$	450	V
Emitter-Base Voltage	V_{EBO}	9	V
Continuous Collector Current	lc	3.2	Α
Peak Pulse Collector Current	Ісм	6.4	Α
Continuous Base Current	l _Β	1.6	Α
Peak Pulse Base Current	I _{BM}	3.2	A

Thermal Characteristics ($@T_A = +25^{\circ}C$, unless otherwise specified.)

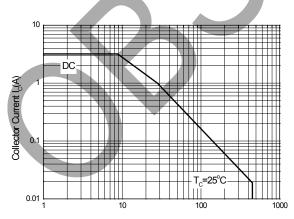
Characteristic	Symbol	Value	Unit
Power Dissipation	Po	28	W
Thermal Resistance, Junction to Case	$R_{ heta JC}$	4.5	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

ESD Ratings (Note 5)

Characteristic	Symbol	Value	Unit	JEDEC Class
Electrostatic Discharge - Human Body Model	ESD HBM	8,000	V	3B
Electrostatic Discharge - Machine Model	ESD MM	400	V	С

Note: 5. Refer to JEDEC specification JESD22-A114 and JESD22-A115.

Safe Operating Areas (@TA = +25°C, unless otherwise specified.)



Collector-Emitter Clamp Voltage $V_{\text{CE}}(V)$

Safe Operating Areas (ITO220AB Package)



Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

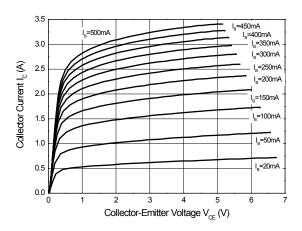
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Collector-Emitter Breakdown Voltage	BV _{CES}	700	_	_	V	$I_C = 100 \mu A, V_{BE} = 0 V$
Collector-Emitter Breakdown Voltage	BV _{CEO}	450	_	_	V	$I_{C} = 100 \mu A$
Emitter-Base Breakdown Voltage	BV _{EBO}	9	_	_	V	I _E = 100μA
Collector Cutoff Current	I _{CEV}	_	_	10	μA	V _{CE} = 700V, V _{BE} = -1.5V
DC Current Transfer Static Ratio (Note 6)	h _{FE}	20 11	_	35 35	_	$I_{C} = 1A, V_{CE} = 5V$ $I_{C} = 2A, V_{CE} = 5V$
Collector-Emitter Saturation Voltage (Note 6)	V _{CE(sat)}		_ _ _	0.3 0.6 1.0	V	$I_C = 1A$, $I_B = 0.2A$ $I_C = 2A$, $I_B = 0.5A$ $I_C = 3A$, $I_B = 0.75A$
Base-Emitter Saturation Voltage (Note 6)	V _{BE(sat)}	_	_	1.2 1.4	V	$I_C = 1A$, $I_B = 0.2A$ $I_C = 2A$, $I_B = 0.5A$
Output Capacitance	C _{obo}	_	35		pF	V _{CB} = 10V, f = 0.1MHz
Transition Frequency	f _t	4	_		MHz	$I_C = 0.5A, V_{CE} = 10V$
Turn-on Time with Resistive Load	ton	_	_	0.7		
Storage Time with Resistive Load	ts	_	- 4	4.5		$I_C = 2A$, $V_{CC} = 125V$, $I_{B1} = -I_{B2} = 0.4A$
Fall Time with Resistive Load	t _f	_	-	0.8		IB1IB2 - U.4A

Note: 6. Measured under pulsed conditions. Pulse width \leq 300µs. Duty cycle \leq 2%.

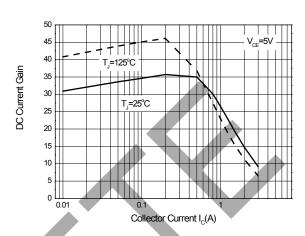




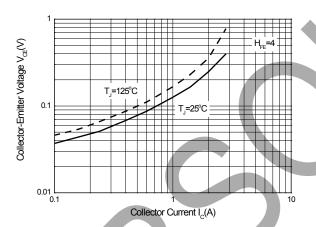
Typical Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)



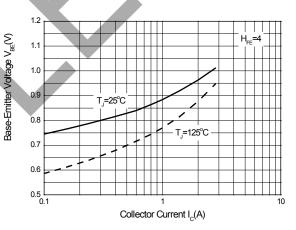
Static Characteristics



DC Current Gain



Collector-Emitter Saturation Region



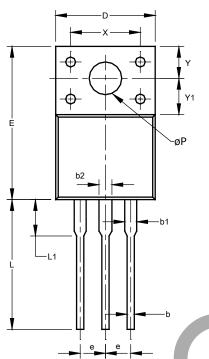
Base-Emitter Saturation Voltage

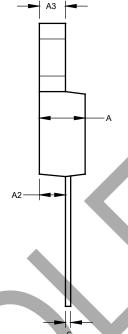


Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.

ITO220AB (TYPE BR)





ITO220AB (TYPE BR)						
Dim	Min	Max	Тур			
Α	4.300	4.900	-			
A2	2.520	2.920	-			
A3	2.350	2.900	-			
b	0.550	0.900	-			
b1	1.000	1.400	-			
b2	1.100	1.500	-			
С	0.450	0.600	-			
D	9.70	10.30	-			
E	14.70	16.00	-			
е	-	1	2.54			
L	12.50	13.50	-			
L1	2.790	4.500	-			
X	6.90	7.10	-			
Υ	3.000	3.400	-			
Y1	3.370	3.900	-			
øΡ	3.000	3.550	-			
All Dimensions in mm						

Note: For high voltage applications, the appropriate industry sector guidelines should be considered with regards to voltage spacing between terminals.





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