

Date code (2 digit)

1st digit		2nd digit	
Year of production		Month of production	
A.D.	Mark	Month	Mark
2000	0	1	1
2001	1	2	2
2002	2	3	3
2003	3	4	4
2004	4	5	5
2005	5	6	6
2006	6	7	7
2007	7	8	8
2008	8	9	9
2009	9	10	X
2010	0	11	Y
:	:	12	Z

repeats in a 10 year cycle

Country of origin

Japan, Indonesia or Philippines
(Indicated on the packing case)

■ Absolute Maximum Ratings

(T_a=25°C)

Parameter		Symbol	Rating	Unit
Input	*1 Forward current	I _F	50	mA
	*1, 2 Peak forward current	I _{FM}	1	A
	Reverse voltage	V _R	6	V
	Power dissipation	P	75	mW
Output	Collector-emitter voltage	V _{CEO}	35	V
	Emitter-collector voltage	V _{ECO}	6	V
	Collector current	I _C	20	mA
	*1 Collector power dissipation	P _C	75	mW
Operating temperature		T _{opr}	−25 to +85	°C
Storage temperature		T _{stg}	−40 to +100	°C
*3 Soldering temperature		T _{sol}	260	°C

*1 Refer to Fig. 1, 2, 3

*2 Pulse width ≤ 100μs, Duty ratio=0.01

*3 For 5s or less

■ Electro-optical Characteristics

(T_a=25°C)

Parameter			Symbol	Condition	MIN.	TYP.	MAX.	Unit
Input	Forward voltage		V _F	I _F =20mA	–	1.25	1.4	V
	Peak forward voltage		V _{FM}	I _{FM} =0.5A	–	3	4	V
	Reverse current		I _R	V _R =3V	–	–	10	μA
Output	Collector dark current		I _{CEO}	V _{CE} =20V	–	1	100	nA
Transfer charac- teristics	Collector current		I _C	V _{CE} =5V, I _F =20mA	0.5	–	5	mA
	Collector-emitter saturation voltage		V _{CE(sat)}	I _F =40mA, I _C =0.5mA	–	–	0.4	V
	Response time	Rise time	t _r	V _{CE} =2V, I _C =2mA, R _L =100Ω	–	3	15	μs
		Fall time	t _f		–	4	20	