

Absolute Maximum Ratings (Ta = 25°C)

	Characteristic	Symbol	Rating	Unit	
TED	Forward current	l _F	50	mA	
	Forward current detating	ΔI _F / °C	−1.4 (Ta ≥89°C)	mA / °C	
	Pulse forward current (100µs pulse, 100pps)	lFP	. 1	Α	
	Reverse voltage	V _R	5	>	
	Junction temperature	. T _j	125	ပ္	
Detector	Collector-emitter voltage	VCEO		> -	-* Maximum Voltage
	Emitter-collector voltage	V _{ECO}	7	V	
	Collector current	lc	50	mA –	-* Maximum Current
	Collector power dissipation (1 Circuit)	Pc	150	mW	·
	Collector power dissipation derating (1 Circuit Ta ≥ 25°C)	ΔP _C /°C	-1.5	mW/°C	
	Junction temperature	Τ _j	125	°C	
Storage temperature range		T _{stg}	-55 to 125	°C	
Operating temperature range		T_{opr}	–55 to 110	°C	
Lead soldering temperature		T _{sol}	260 (10s)	°C	
Total package power dissipation		PT	200	mVV	
Total package power dissipation derating (Ta ≥ 25°C)		ΔP _T / °C	-2.0	mW / °C	
Isolation voltage (AC, 1min., R.H. ≤ 60%) (Note 1)		BVS	3750	V _{rms}	,

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

(Note 1) Device considered a two-terminal device: Pin1, 3 shorted together and pins 4, 6 shorted together

Recommended Operating Conditions

Characteristic	Symbol	Min	Тур.	Max	Unit
Supply voltage	Vcc	_	5	48	V
Forward current	l _F	-	16	20	mA
Collector current	lc .	T	1	10	mA

Note: Recommended operating conditions are given as a design guideline to obtain expected performance of the device. Additionally, each item is an independent guideline respectively. In developing designs using this product, please confirm specified characteristics shown in this document.