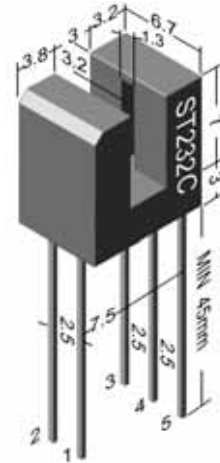


ST232C

- Features
 - Combines high output GaAs IRED with high sensitive twin phototransistor.
 - The phototransistors' centre distance is 0.7mm. any moving object's direction over 1.3mm width can be detected.
 - Non-contact detecting manner.
- Applications
 - IC card electric power meter.
 - AMR system.
 - Water meter
- Combined with direction detector IC(st288A), it can be used as detecting moving direction, rotating speed and moving distance etc.

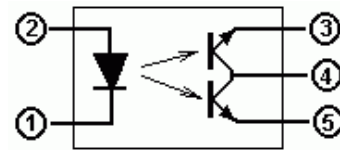
- Dimensions Unit:mm
 Unless otherwise specified, the tolerances are $\pm 0.2\text{mm}$



● Absolute Maximum Ratings(Ta=25°C)

	Parameter	Symbol	Rating	Unit
Input	Forward Current	IF	50	mV
	Reverse Voltage	VR	6	V
	Power Dissipation	P	75	mW
Output	Collector-Emitter voltage	VCEO	25	V
	Emitter-Collector voltage	VECO	6	V
	Collector Power Dissipation	PC	50	mW
	*Operating Temperature	Topr	-20~65	°C
	Storage Temperature	Tstg	-30~75	°C
	**Soldering Temperature	Tsol	260	°C

Internal Circuit



*The special requirement could be met according to customer's request.

**Soldering time: 5s max. soldering position: at least 1.5mm from the base of the package.

● Electro-Optical Characteristics(Ta=25°C)

	Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	VF	IF=20mA	-	1.25	1.5	V
	Reverse Current	IR	VR=3V	-	-	10	μA
Output	Collector Dark Current	ICEO1	VCE=20V	-	-	1	μA
		ICEO2					
	Collector Light Current	IL1	VCE=5V IF=8mA	0.3	-	-	mA
		IL2					
Collector-Emitter Saturation Voltage	VCE(SAT)	IF=8mA IC=0.15mA	-	-	0.4	V	
	VCE(SAT)						
Transfer Characteristics	Response Time	Rise Time	IF=20mA VCE=5V RC=100Ω	-	5	-	μS
		Fall Time		-	5	-	μS