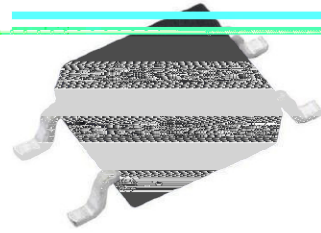


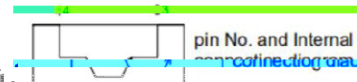
1. Features

- Current transfer ratio(CTR : MIN. 50% at $I_E = 5mA$ $V_{CE} = 5V$ $T_a=25^{\circ}C$)
- High input -output isolation voltage ($V_{iso}=3,750V_{rms}$)
- High collector-emitter voltage ($V_{CEO} = 80V$)
- PCB Mountable
- RoHS Compliant
- In compliance with RoHS (REACH) standards
- WESG Class



2. INSTRUCTIONS

- The OR-357 series device consists of an infrared led, bipolar transistor, hermetic package.
- They are enclosed in a plastic package.
- Pin No. and Internal connection diagram



3. Application

- Substrate: plastic
- Principle controllers:
 - 1. System assistance, measuring instruments

4. Absolute Maximum Ratings (Value Temperature: 25°C)

Parameter	Symbol	Value	Unit
Forward Current	I_F	50	mA
Reverse Voltage	V_R	80	V
Consume Power	P	70	mW
Collector and emitter voltage	V_{CE}	80	V
Collector Consume Power	P_C	100	mW
Total Consume Power	P_{tot}	200	mW
1 Insulation Voltage	V_{iso}	3750	V _{rms}
Working Temperature	T_{opr}	-55 to + 110	°C
Deposit Temperature	T_{stg}	-55 to + 125	
2 Soldering Temperature	T_{sol}	260	



- *1. AC Test, 1 minute, humidity = 40~60%
Insulation test method as below:
(1) Short circuit both terminals of photo coupler.
(2) No Current when testing insulation voltage.
(3) Adding sine wave voltage when testing.
- *2. soldering time is 10 seconds.

5. Opto-electronic Characteristics

Parameter		Symbol	Min	Typ.*	Max	Unit	Condition
Input	Forward Voltage	V_F	---	1.2	1.4	V	$I_F=20mA$
	Reverse Current	I_R	---	---	5	μA	$V_R=5V$
	Collector capacitance	C_t	---	30	250	pF	$V=0, f=1KHz$
	Collector to emitter Current	I_{CEO}	---	---	100	nA	$V_{CE}=20V,$
	Collector to Emitter Breakdown Voltage	BV_{CEO}	80	---	---	V	$I_C=0.1mA$ $I_F=0mA$
	Emitter to Collector Breakdown Voltage	BV_{ECO}	7	---	---	V	$I_E=0.1mA$ $I_F=0mA$
Transforming Characteristics	Current Conversion Ratio	K_{CTR}	---	---	50	%	$I_C=1mA$
	Insulation Impedance	R_{iso}	5×10^{10}	1×10^{11}	---	Ω	DC500V 40~60%R.H.
	Floating Capacitance	C_f	---	0.6	1	pF	$V=0, f=1MHz$
	Propagation Delay Time	t_{pd}	---	4	18	μs	$V_{CC}=2V,$ $I_C=2mA,$ $R_L=100\Omega$

① 100%

6 Rank table of current transfer ratio CTR (tolerance:±3%)

C	200	400
	30	30μ
no mark	30	30

IF=0.1mA, VCE=5V, Tc=25°C

Order information

part number

OR-357X-V-100

Note

1. CTR Rank table is for reference

2. For more details, please refer to the datasheet

3. For more details, please refer to the datasheet

4. For more details, please refer to the datasheet

	On	no variation
1. Pin	Surface mount lead form (low profile) 4 pins (type 3) reeption	2000 units per reel
2. Pin	Surface mount lead form (low profile) 4 pins (type 3) reeption	2000 units per reel