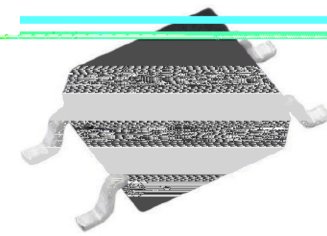
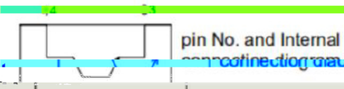
1. Features



- Current transfer ratio(CTR : MIN. 50% at I_F = 5mA, V_{CE} = 5V Ta=25℃)
- High input -output isolation voltage （V_{ISO}=3,750Vrms）
- High collector-emitter voltage （V_{CEO} =80V）
- [illegible]
- [illegible]
- In compliance with RoHS, REACH standards
- MSL Class [illegible]

2. Instructions



- The OR-357 series device consists of an infrared led, photo transistor detector [illegible]
[illegible]
[illegible]

3. Application

- [illegible]
- Programmable controllers
- System appliance, measuring instruments

4. Absolute Maximum Rated Value (Temperature [illegible])

[illegible]	Forward Current	I_F	[illegible]	[illegible]
	Junction [illegible]	[illegible]	[illegible]	[illegible]
	Reverse voltage	V_R	[illegible]	[illegible]
	Consume Power	P	70	mW
[illegible]	Collector and [illegible]	V_{CEO}	[illegible]	[illegible]
	Emitter and collector voltage	V_{ECO}	[illegible]	[illegible]
	Collector [illegible]	I_C	[illegible]	[illegible]
	Consume Power	P_C	150	mW
Total Consume Power		P_{tot}	200	mW
*1 Insulation Voltage		V_{iso}	3750	Vrms
Working Temperature		T_{opr}	-55 to + 110	℃
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,
	and Emitter tion Voltage	BV_{CEO}	80	---	---	V	I_C=0.1mA I_F=0mA
	nd Collector ion Voltage	BV_{ECO}	7	---	---	V	I_E=0.1mA I_F=0mA
	or						
	al io						I_C= 1mA
Transforming Characteristics	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
				4	18	μs	V_{CC}=2V, I_C=2mA, R_L=100Ω
				3	18	μs	

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

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
C	200	400	IF=5mA, VCE=5V, Ta=25°C	
D	30	30		
No rank	0	30		

7 Order information

Part number

OR-357X-V-Y-Z

Note

[illegible]

[illegible]

[illegible]

	Option		Description
[illegible]	Surface mount lead form (low profile) + [illegible] tape & reel option		[illegible] units per reel
[illegible]	[illegible]	(P1)	Surface mount lead [illegible]