

Safety Standard Approved Opto Isolators ON3171 Series

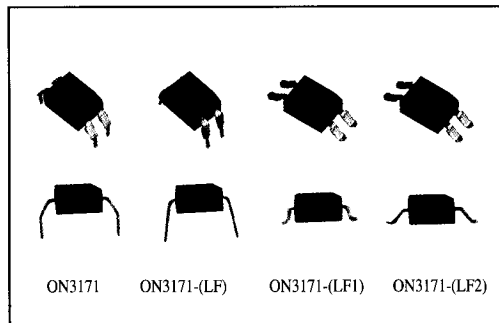
■ Features

- High current transfer ratio:CTR:100~600%
- Isolation voltage:Viso>5kV
- High collector-emitter voltage:V_{CEO}>80V
- Surface mounting type
- Overseas safety standard approved

■ Safety Standard Approved List

- UL approved
- VDE approved
- BSI applied
- SEMKO applied
- DEMKO applied
- NEMKO applied
- FIMKO applied
- CSA approved

■ Package photograph



■ Applications

- Programmable Controller(PC)
- Switching Supply, AC Adapter
- Telephone, Facsimile, PBX
- Isolated Signal Transmission

■ Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Condition	min	typ	max	Unit
Electrical Characteristics-Input Diode						
Forward Voltage	V _F	I _F =50mA		1.35	1.5	V
Reverse Current	I _R	V _R =3V			10	μA
Capacitance	C _i	V _R =0, f=1MHz		15		pF
Electrical Characteristics-Output Transistor						
Dark Current	I _{CEO}	V _{CE} =20V		5	100	nA
Collector-Emitter Voltage	V _{CEO}	I _C =100 μA	80			V
Emitter-Collector Voltage	V _{ECO}	I _E =10 μA	7			V
Collector Capacitance	C _C	V _{CE} =10V, f=1MHz		10		pF
Electrical Characteristics-Coupled						
Current Transfer Ratio	CTR	V _{CE} =10V, I _F =5mA	100		600	%
Saturation Voltage	V _{CE(sat)}	I _F =20mA, I _C =1mA		0.1	0.2	V
Rise Time	t _r	V _{CC} =10V, I _C =2mA		2		μs
Fall Time	t _f			3		μs
Capacitance	C _{iso}	f=1MHz		0.7		pF
Resistance	R _{iso}	V _{iso} =500V	10 ¹¹			Ω

† The products and specifications are subject to change without any notice. Please ask for the latest Product Standards to guarantee the satisfaction of your product requirements.

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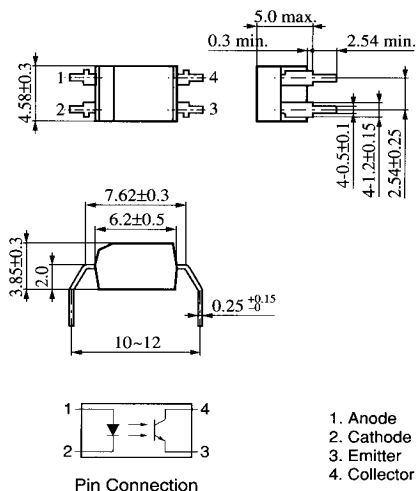
Tel. (075) 951-8151

<http://www.mec.panasonic.co.jp>

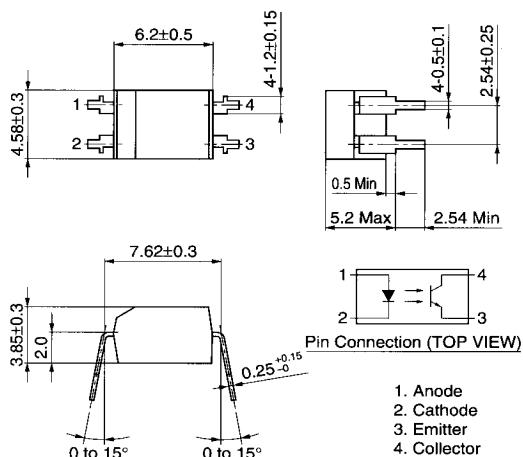
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New publication, effective from May. 6 1998

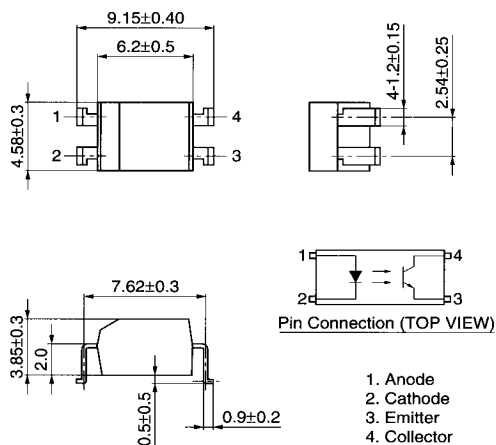
ON3171



ON3171-(LF)



ON3171-(LF1)



ON3171-(LF2)

