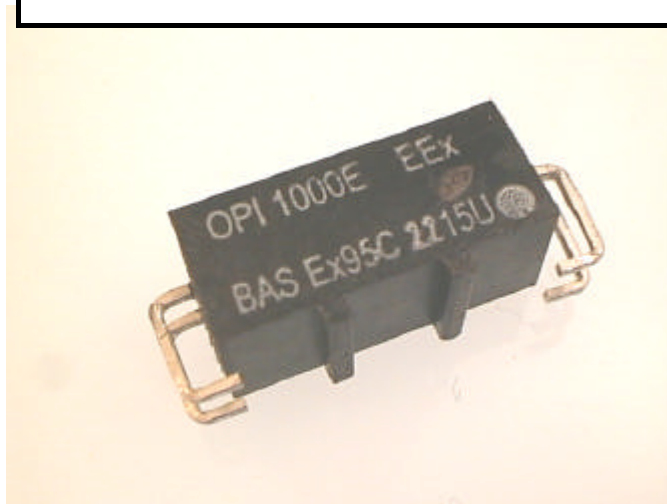


BASEEFA Certified
BAS No. Ex 95C2215UEExia IIC

- Surface Mount configuration in Tape & Reel,
- 10KV isolation,
- High Current Transfer ratio- 40% min @ 1mA If,
- Designed and manufactured to EN50020 1995 and EN50014 1998.



CONDITIONS OF USE APPLY
EN50020 1994 CLAUSE 6.4.9
EN50014 1997 CLAUSE 8.8

BEDFORD OPTO TECHNOLOGY LTD
LINDSAYLANDS, BIGGAR, LANARKSHIRE, ML12 6NR
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INPUT DIODE FORWARD DC CURRENT REVERSE DC VOLTAGE	100mA 5 Volts
OUTPUT TRANSISTOR COLLECTOR-EMITTER VOLTAGE COLLECTOR CURRENT	35 Volts 15 mA
OPERATING TEMP	-25°C TO +100°C
STORAGE TEMP	-25°C TO +100°C
INPUT-TO-OUTPUT ISOLATION VOLTAGE	$\pm$ 10KV DC (i)

- i) Measured with the input leads and output leads shorted together for one min.
- ii) Thermal resistance 375 K/W
- iii) Thermal resistance 450 K/W

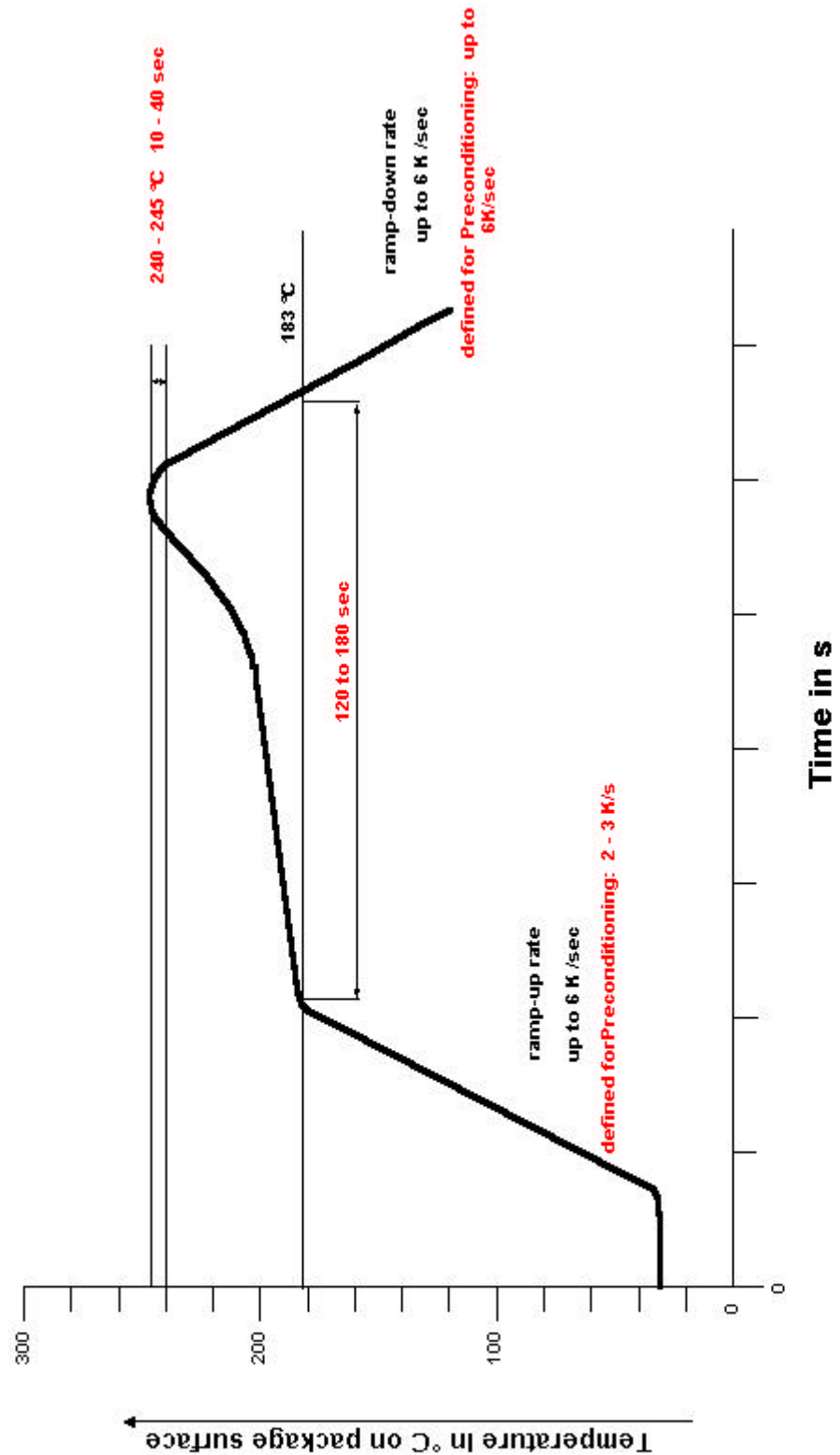
Whilst the devices are capable of operating continually at the noted elevated temperatures users should be aware of the possibility of a reduction in CTR over long periods at high temperatures & currents.

Packing

Waffle Trays - 100 per tray 290mm x 200mm.

Tape & Reel - 400 Devices per 13" Diam Reel with 7" HuB
32mm Wide tape .

IR Reflow soldering profile conforming to IPC9501



PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDI- TIONS
INPUT DIODE						
Forward Voltage	V _F	-	-	1.3	V	I _f = 20mA
Reverse Voltage	V _R	5.0	-	-	V	I _r = 100uA
OUTPUT TRANSISTOR						
Collector-Emitter Breakdown Volt-	BV _{ceo}	35	-	-	V	I _c = 10 uA
Collector-Emitter Leakage Cur- rent	I _{ceo}	OPI1000E OPI1000A	-	10	nA	V _{ce} = 30 V
Emitter-Collector Breakdown	BV _{eco}	5.0	-	-	V	I _c = 100uA
COUPLED PAIR						
DC Current Transfer Ratio	I _C /I _F					
OPI 1000 A	-	25	-	-	%	I _f = 10 mA V _{ce} =
OPI 1000 B	-	50	-	-	%	I _f = 10 mA V _{ce} =
OPI 1000 C	-	100	-	-	%	I _f = 10 mA V _{ce} =
OPI 1000 E	-	40	-	-	%	I _f = 1mA
Isolation Voltage	V _{ISO}	10	-	-	KV	-
Collector-emitter saturation volt-	V _{CE(SAT)}	-	-	0.4	V	I _f = 10 mA,
Turn-on time	t _{on}	-	8	-	uS	I _c =2mA
Turn-off time	t _{off}	-	8	-	uS	V _{cc} = 5V

OPTO ELECTRONIC SOLUTIONS

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ESSENTIAL HEALTH AND SAFETY INFORMATION IN ACCORDANCE WITH ATEX DIRECTIVE 94/9/EC

INFORMATION CONTAINED IN THIS DATASHEET IS DEEMED TO CONFORM TO THE ABOVE DIRECTIVE AND IS SUPPLIED IN RELATION TO THE FOLLOWING SHIPMENT: -

CUSTOMER_____

ORDER NUMBER_____

INVOICE NUMBER_____

TYPE NUMBER_____

QUANTITY_____

BATCH NUMBER_____

DATE CODE_____

DATE OF SHIPMENT_____