



Radiation sensitive devices

Dispositifs sensibles aux radiations - Strahlungsempfindliche Elemente

TYPE NUMBER	DESCRIPTION Additional information	SUBTYPES (2)	RATINGS AND CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$, unless otherwise stated)				
			Symbol	Value	Unity	min typ max	MEASURING CONDITIONS
BPX52 BPX53 BPX54 BPX55	DIFFUSED NUCLEAR RADIATION DETECTORS WITH PLANAR TECHNOLOGY, ENCAPSULATED IN SPECIAL BOXES WITH THREE ELECTRICAL OUTPUT CONNECTIONS A = 10 mm ² , R _α = 20 keV (°) (BPX52) A = 25 mm ² , R _α = 20 keV (°) (BPX53) A = 100 mm ² , R _α = 25 keV (°) (BPX54) A = 200 mm ² , R _α = 25 keV (°) (BPX55) (°) Resolution (R) obtained with α of ²⁴¹ Am	BPX52- 50 -100 -200 BPX53- 50 -100 -200 BPX54- 50 -100 -200 BPX55- 50 -100 -200	h _{dep} h _{dep} h _{dep} h _{dep} h _{dep} h _{dep} h _{dep} h _{dep} h _{dep} h _{dep} h _{dep} h _{dep}	50 100 200 50 100 200 50 100 200 50 100 200	μm μm μm μm μm μm μm μm μm μm μm μm		
BPX56 BPX57	DETECTORS INTENDED FOR HIGH RESOLUTION X-RAY SPECTROMETRY. <i>Delivered in a cryostat, provided with a pre-amplifier with cooled first stage</i> Active area : 25 mm ² (BPX56) 100 mm ² (BPX57) Depletion depth : 3 to 5 mm	BPX56SQ BPX56A BPX57SQ BPX57A	R _X R _X R _X R _X	250 300 350 400	eV eV eV eV	at ⁵⁵ keV radiation (5,898 keV) at ⁵⁵ keV radiation (5,898 keV) at ⁵⁵ keV radiation (5,898 keV) at ⁵⁵ keV radiation (5,898 keV)	
BPX58	PHOTO-TRANSISTOR LINE CONTAINING 10 NPN TRANSISTORS FOR READOUT ARRAYS <i>Outlines : NS248</i> E with colour temperature of 2856 °K		V _{CE} I _C P _{tot} T _j I _C λ _{pk}	20 50 50 200 65 200 80 0,78	V mA mW mW °C nA μA μm	max max max max max max min typ single transistor transistor line at V _{CE} = 5 V ; E = 0 at V _{CE} = 5 V ; E = 1000 lx	
BPX60 BPX61	Si PHOTO TRANSISTOR in microceramic encapsulation. <i>Outlines : 112</i>		V _R T _L P _{tot} V _L I _k λ _s t _r T _K T _K A I _R	32 230 325 360 5 850 1 -2,6 0,2 7,6 7	V °C mW mV μA nm μs mV/K %/K mm ² nA	max max max max max max max max max max max max at 100 lx at 100 lx at 100 lx at R _L = 1 kΩ ; V _R = 10V for V _L for I _K	
BPX62	NPN PHOTO-TRANSISTOR <i>Outlines : NS249</i> I _{ph} (at V _{CE} = 5 V ; E = 1000 lx) Group I : 0,4 - 0,8 mA II : 0,63 - 1,25 mA III : 1,0 - 2,0 mA IV : 1,6 - 3,2 mA E with colour temperature of 2856 °K		V _{CEO} V _{EB} P _{tot} T _j I _{CE} λ _{pk}	32 5 50 125 100 0,78	V V mW °C nA μm	max max max max max max at V _{CE} = 25 V ; E = 0	

(1) FWHM : Full width, half maximum of pulse

(2) if applicable