





Types covered by similarity:				Remarks:																				
Procurement Specifications		Manufacturer		Nature of Approval	Supervising Authority	Date																		
Generic ESCC 5000  Detail ESCC 5101/029		INFINEON Technologies AG Neubiberg Germany		Qualification	DLR	Dec 2011																		
Characteristics: <table border="1" data-bbox="85 890 1400 1050"> <thead> <tr> <th>Type</th> <th>Variant</th> <th>V<sub>BR</sub> (V)</th> <th>t<sub>rr</sub> (ns)</th> <th>V<sub>RWM</sub> (V<sub>pk</sub>)</th> <th>I<sub>R</sub> (μA)@ V<sub>RWM</sub></th> <th>I<sub>FSM</sub> (A<sub>pk</sub>)</th> <th>C (pF)</th> <th>Case</th> </tr> </thead> <tbody> <tr> <td>BAY6642 (ES)</td> <td>01</td> <td>100</td> <td>4</td> <td>75</td> <td>100</td> <td>2.5</td> <td>2.5</td> <td>HSL2-1808</td> </tr> </tbody> </table>							Type	Variant	V <sub>BR</sub> (V)	t <sub>rr</sub> (ns)	V <sub>RWM</sub> (V <sub>pk</sub> )	I <sub>R</sub> (μA)@ V <sub>RWM</sub>	I <sub>FSM</sub> (A <sub>pk</sub> )	C (pF)	Case	BAY6642 (ES)	01	100	4	75	100	2.5	2.5	HSL2-1808
Type	Variant	V <sub>BR</sub> (V)	t <sub>rr</sub> (ns)	V <sub>RWM</sub> (V <sub>pk</sub> )	I <sub>R</sub> (μA)@ V <sub>RWM</sub>	I <sub>FSM</sub> (A <sub>pk</sub> )	C (pF)	Case																
BAY6642 (ES)	01	100	4	75	100	2.5	2.5	HSL2-1808																
Operating Temperature Range (°C): -65 to +175																								
 <p>ESCC European Space Components Coordination QPL</p>		DIODES, SWITCHING, BASED ON TYPES BAY6642(ES)			Current Validity of Qualification		Page																	
					Certificate 316	Valid Until December 2013	04-01 001-3-3																	

Types covered by similarity: Variant 03 (~ 40 V)		Remarks:				
Procurement Specifications		Manufacturer	Nature of Approval	Supervising Authority	Date	
Generic ESCC 5010  Detail ESCC 5512/020		INFINEON Technologies AG Neubiberg Germany	Qualification Extension Requalification Requalification Extension	DARA DLR DLR DLR DLR	Sep 1995 Jan 2000 Mar 2008 Nov 2010 Mar 2012	
Characteristics: Variants 01 and 03 are qualified Maximum Ratings: BAS 70 $V_{RR}$ : ~70 V $I_F$ : 70 mA $I_{FSM}$ : 85 mA <sub>pk</sub> @ t<10ms, duty cycle=10% D.C Parameters: $I_R = 100$ nA max @ $V_R = \sim 56$ V $V_{F1} = 0.44$ V max. @ $I_F = 1.0$ mA At room temp. $V_{BR} = 70$ V min @ $I_R = \sim 10$ μA $V_{F2} = 0.78$ V max. @ $I_F = 10$ mA $V_{F3} = 1.00$ V max. @ $I_F = 15$ mA Package Type      T1 P <sub>tot</sub> =0.25W @ T <sub>case</sub> = +125 °C Operating Temperature Range (°C): ~55 to +150						
		DIODES, MICROWAVE, SILICON, SCHOTTKY, GENERAL PURPOSE, BASED ON TYPE BAS 70			Current Validity of Qualification	
					Certificate	Valid Until
					04-05	
		227 D			001-3	
		March 2014				

Types covered by similarity: Variant 02		Remarks:				
Procurement Specifications		Manufacturer	Nature of Approval	Supervising Authority	Date	
Generic ESCC 5010  Detail ESCC 5513/017		INFINEON Technologies AG Neubiberg Germany	Qualification Extension Extension Requalification Requalification Extension	DARA DLR DLR DLR DLR DLR	Jun 1995 Jan 2000 Jan 2004 Mar 2008 Nov 2010 Mar 2012	
Characteristics: Variants 01 and 02 are qualified Maximum Ratings: $V_R$ : 50 V $I_{FM}$ : 5.0 A @ $t_p=1.0 \mu s$ , duty cycle = 0.001% D.C Parameters: $I_{R1} = 10 \mu A$ max @ $V_R = 50 V$ $I_{R2} = 5 nA$ max @ $V_R = 40 V$ $V_F = 1.1 V$ max. @ $I_F = 100 mA$ Package Types T1 ( $P_D= 350mW$ ) and T Operating Temperature Range (°C): -55 to +175						
		DIODES, MICROWAVE, SILICON, PIN, BASED ON TYPE BXY 42- MESA		Current Validity of Qualification		Page
				Certificate	Valid Until	04-16
			224 E	March 2014	002-2	

Types covered by similarity:		Remarks:				
Procurement Specifications		Manufacturer	Nature of Approval	Supervising Authority	Date	
Generic ESCC 5010  Detail ESCC 5513/030		INFINEON Technologies AG Neubiberg Germany	Qualification Extension Extension Requalification Requalification Extension	DARA DLR DLR DLR DLR DLR	Oct 1996 Jan 2000 Jan 2004 Mar 2008 Nov 2010 Mar 2012	
Characteristics: Variants 01, 02, 05 and 06 are qualified. BXY 43 (variants 01-02)                      BXY 44 (variants 05-06) Maximum Ratings: $V_R = \overset{-}{\sim} 150 \text{ V}$ $\overset{-}{\sim} 200 \text{ V}$ $I_F = 400 \text{ mA}$ $P_D = 500 \text{ mW}$ D.C Parameters: $I_R = 100 \text{ nA max @ } V_R = \overset{-}{\sim} 150 \text{ V}$ $5 \text{ nA @ } V_R = \overset{-}{\sim} 100 \text{ V}$ $V_F = 1.0 \text{ V max.}$ $1.05 \text{ V max. @ } I_F = 100 \text{ mA}$ Package Type                      T, T1 Operating Temperature Range (°C): $\overset{-}{\sim} 55 \text{ to } \overset{+}{\sim} 150$						
		DIODES, MICROWAVE, SILICON, PIN, PLANAR BASED ON TYPES BXY 43 AND 44		Current Validity of Qualification		Page
				Certificate	Valid Until	04-16
				236 E	March 2014	003