

TRANSISTORS, POWER, MOSFET, N-CHANNEL, BASED ON TYPE BUY **CS***				<b>319F</b>
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 5000 Detail ESCC	<a href="#">Infineon Technologies AG</a> <a href="#">Neubiberg</a> <a href="#">Germany</a>	Qualification	DLR	Aug 2012
		Remarks These devices have a TID tested capability of 100 kRad (Si) SEE tested : LET (MeV-cm <sup>2</sup> /mg) 56 @ V <sub>GS</sub> = -10V, V <sub>DS</sub> = 250V SOA and SE SOA derating graphs are incorporated in the Detail Specifications.		
<a href="#">5205/026</a> , <a href="#">5205/027</a> , <a href="#">5205/030</a>				
Qualified range:  5205/026 — variants 01R, 02R, 03R, 04R 5205/027 — variant 01R, 02R 5205/030 — variants 01R, 02R, 03R, 04R, 05R, 06R				

TRANSISTORS, POWER, MOSFET, N-CHANNEL, RADHARD BASED ON TYPE BUY 15CS				<b>339D</b>																		
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date																		
Generic ESCC 5000 Detail ESCC 5205/031	Infineon Technologies AG Neubiberg Germany	Qualification	DLR	May 2016																		
Remarks																						
<p>Qualified range:</p> <table border="1"> <thead> <tr> <th>Variant Number</th> <th>Based on Type</th> </tr> </thead> <tbody> <tr><td>01</td><td>BUY15CS23J-01</td></tr> <tr><td>02</td><td>BUY15CS57A-01</td></tr> <tr><td>03</td><td>BUY15CS23K-01</td></tr> <tr><td>04</td><td>BUY15CS45B-01</td></tr> <tr><td>05</td><td>BUY15CS23J-02</td></tr> <tr><td>06</td><td>BUY15CS57A-02</td></tr> <tr><td>07</td><td>BUY15CS23K-02</td></tr> <tr><td>08</td><td>BUY15CS45B-02</td></tr> </tbody> </table> <p>Variant 01, 02, 03, 04: 8 inch wafer process. Variant 05, 06, 07, 08: 12 inch wafer process.</p> <p>These devices have a TID tested capability of 100 kRad (Si) SEE tested : LET (MeV-cm<sup>2</sup>/mg) 56 @ V<sub>GS</sub> = -10V, V<sub>DS</sub> = 250V SOA and SE SOA derating graphs are incorporated in the Detail Specifications.</p> <p>Operating Temperature Range (°C): Top = - 55 to +150</p>					Variant Number	Based on Type	01	BUY15CS23J-01	02	BUY15CS57A-01	03	BUY15CS23K-01	04	BUY15CS45B-01	05	BUY15CS23J-02	06	BUY15CS57A-02	07	BUY15CS23K-02	08	BUY15CS45B-02
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TRANSISTORS, POWER, MOSFET, N-CHANNEL, RADHARD BASED ON TYPE BUY 06CS				<b>363B</b>																		
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date																		
Generic ESCC 5000 Detail ESCC 5205/032	Infineon Technologies AG Neubiberg Germany	Qualification	DLR	January 2020																		
Remarks																						
<p>Qualified range:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 15%;">Variant Number</th> <th style="width: 85%;">Based on Type</th> </tr> </thead> <tbody> <tr><td>01</td><td>BUY06CS35J-01</td></tr> <tr><td>02</td><td>BUY06CS80A-01</td></tr> <tr><td>03</td><td>BUY06CS23K-01</td></tr> <tr><td>04</td><td>BUY06CS45B-01</td></tr> <tr><td>05</td><td>BUY06CS35J-02</td></tr> <tr><td>06</td><td>BUY06CS80A-02</td></tr> <tr><td>07</td><td>BUY06CS23K-02</td></tr> <tr><td>08</td><td>BUY06CS45B-02</td></tr> </tbody> </table> <p>Variant 01, 02, 03, 04: 8 inch wafer process.            Variant 05, 06, 07, 08: 12 inch wafer process.</p> <p>These devices have a TID tested capability of 100 kRad (Si)            SOA derating graphs are incorporated in the Detail Specification.</p> <p>Operating Temperature Range (°C): Top = - 55 to +150</p>					Variant Number	Based on Type	01	BUY06CS35J-01	02	BUY06CS80A-01	03	BUY06CS23K-01	04	BUY06CS45B-01	05	BUY06CS35J-02	06	BUY06CS80A-02	07	BUY06CS23K-02	08	BUY06CS45B-02
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08	BUY06CS45B-02																					

TRANSISTORS, POWER, MOSFET, N-CHANNEL, RAD-HARD BASED ON TYPES BUY65CS08J-01, BUY65CS28A-01				<b>360B</b>										
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date										
Generic ESCC 5000 Detail ESCC 5205/033	<a href="#">Infineon Technologies AG</a> <a href="#">Neubiberg</a> <a href="#">Germany</a>	Qualification	DLR	May 2020										
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02	BUY65CS28A-01													
03	BUY65CS08J-02													
04	BUY65CS28A-02													

6.12.4 RF/Microwave, NPN, Low Power, Low Noise

TRANSISTORS, MICROWAVE, SMALL SIGNAL, BIPOLAR, BASED ON TYPE BFY 193				230L																					
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date																					
Generic ESCC 5010 Detail ESCC 5611/006	Infineon Technologies AG Neubiberg Germany	Qualification	DLR	Jun 1996																					
Remarks																									
<p>Qualified range:</p> <p>Variants 03 to 09</p> <p>Characteristics for BFY 193:</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> <th>Conditions</th> </tr> </thead> <tbody> <tr> <td>V<sub>CEO</sub> (V) max.</td> <td>12</td> <td></td> </tr> <tr> <td>V<sub>CBO</sub> (V) max.</td> <td>20</td> <td></td> </tr> <tr> <td>h<sub>FE</sub> min/max.</td> <td>50/175</td> <td>@ VCE = 8.0 V, IC = 30mA</td> </tr> <tr> <td>NF (dB) max.</td> <td>2.9</td> <td>@ VCE = 5.0 V, IC = 15mA</td> </tr> <tr> <td>MAG/MSG (dB) min.</td> <td>12.5</td> <td>@ VCE = 5.0 V, IC = 40mA</td> </tr> <tr> <td>f<sub>T</sub> (GHz) min.</td> <td>6.5</td> <td>@ VCE = 5.0 V, IC = 40mA</td> </tr> </tbody> </table>					Parameter	Value	Conditions	V <sub>CEO</sub> (V) max.	12		V <sub>CBO</sub> (V) max.	20		h <sub>FE</sub> min/max.	50/175	@ VCE = 8.0 V, IC = 30mA	NF (dB) max.	2.9	@ VCE = 5.0 V, IC = 15mA	MAG/MSG (dB) min.	12.5	@ VCE = 5.0 V, IC = 40mA	f <sub>T</sub> (GHz) min.	6.5	@ VCE = 5.0 V, IC = 40mA
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<p>Package: " Micro-X1"</p> <p>Total Power Dissipation (P<sub>tot</sub>) = 580 mW</p> <p>Operating Temperature Range (°C): Top = - 65 to +200</p>																									

TRANSISTORS, MICROWAVE, SMALL SIGNAL, BIPOLAR, BASED ON TYPE BFY 450				<b>245L</b>
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 5010 Detail ESCC 5611/008	<a href="#">Infineon Technologies AG</a> <a href="#">Neubiberg</a> <a href="#">Germany</a>	Qualification	DLR	Jun 1997
Remarks				
<p>Qualified range:</p> <p>Variants 01, 02 and 03 are qualified.</p>  <p>Operating Temperature Range (°C): Top = - 65 to +175</p>				

TRANSISTORS, MICROWAVE, SMALL SIGNAL, BIPOLAR, BASED ON TYPES BFY 640, 640B, 650B and 740B				322F
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 5010 Detail ESCC	<a href="#">Infineon Technologies AG</a> <a href="#">Neubiberg</a> <a href="#">Germany</a>	Qualification	DLR	Jun 1997
		Remarks This certificate, from its issue B, release in May 2016, includes in its scope of qualification some devices previously listed in the QPL under certificates No. 320 and 321, which are no longer maintained.		
<a href="#">5611/009, 5611/010, 5611/011</a>				
Qualified range:  5611/009: variants 01, 02, 03 5611/010: variants 03, 04, 05 5611/011: variant 01, 02				