

6.12.3 MOSFET, Power, N-Channel

TRANSISTORS, MOSFET, N-CHANNEL, POWER, BASED ON TYPES STRH100N10, STRH40N6, STRH100N6 AND STRH8N10				303D												
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date												
Generic ESCC 5000 Detail ESCC	STMicroelectronics Rennes France	Qualification	CNES	Oct 2010												
		Remarks														
5205/021, 5205/022, 5205/023, 5205/024																
Qualified range: 5205/021 & 5205/022: Variants 01 and 02 are qualified 5205/023 & 5205/024: Variant 01 is qualified Package Types:TO-254AA, SMD.5 for STRH40N6 and STRH8N10 Maximum Ratings for 5205/021: <table><tr><td>V_{GS(th)}</td><td>2 –4.5 min/max, I_D=1 mA</td></tr><tr><td>r_{DS(on)} (m Ω):</td><td>35, V_{GS}=12V, I_D=24A</td></tr><tr><td>I_{DS} (A)</td><td>48, T_{case} (°C)= +25</td></tr><tr><td>V_{DS} (Vdc):</td><td>100 over Top , V_{GS}= 0 V</td></tr><tr><td>V_{GS} (Vdc):</td><td>± 20</td></tr><tr><td>P_{TOT}:</td><td>170 W at T_{case} ≤+25 C</td></tr></table> Operating Temperature Range (°C): -55 to +150					V _{GS(th)}	2 –4.5 min/max, I _D =1 mA	r _{DS(on)} (m Ω):	35, V _{GS} =12V, I _D =24A	I _{DS} (A)	48, T _{case} (°C)= +25	V _{DS} (Vdc):	100 over Top , V _{GS} = 0 V	V _{GS} (Vdc):	± 20	P _{TOT} :	170 W at T _{case} ≤+25 C
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P _{TOT} :	170 W at T _{case} ≤+25 C															

6.12.4 MOSFET, Power, P-Channel

TRANSISTORS, MOSFET, P-CHANNEL, POWER, TYPE STRH40P10 and STRH12P10				326B
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 5000 Detail ESCC 5205/025 5205/029	ST Microelectronics Rennes France	Qualification	DLR	Mar 2013
Remarks These devices have a TID tested capability of 100kRAD(Si).				
Qualified range: Variants 01 and 02 in 5205/025 are qualified. Variants 01 and 02 in 5205/029 are qualified.				