

6.4.2 Schottky

DIODES, POWER, SCHOTTKY BARRIER, BASED ON TYPES 1N5819U, 1N5822U AND STPS								368rev1	
Procurement Specifications	Manufacturer		Nature of Approval		Supervising Authority		Initial Qualification Date		
Generic ESCC 5000 Detail ESCC	STMicroelectronics Rennes France		Qualification		CNES		Sept 2020 Initial qualification date of certificates merged into 368: Cert 272: 11/2002 Cert 302: 09/2010		
			Remarks						
5106/020, 5106/021, 5106/016, 5106/017, 5106/018, 5106/019, 5106/023, 5106/024									
Qualified range:									
ESCC component No.	Variant	Type	V _{RRM} (V)	I _R (μA) @ V _{RRM}	I _{FSM} (A)	I _{FRMS} @T _{amb}	T _{jmax} (°C)	Config.	Package
5106/021	02, 03	1N5819U	45	20	25	1A	150	Single	LCC2B
5106/020	01, 02	1N5822U	40	80	80	3A	150	Single	LCC2B
5106/016	05, 06, 07, 11	STPS20100	100	30	250	30A per diode	175	Single or Dual diode common cathode	TO-254, SMD0.5, SMD1
5106/017	01, 02	STPS1045S	45	100	200	15A per diode	175	Single or Dual diode common cathode	SMD0.5
5106/018	02	STPS6045	45	500	300	2 x 30A	175	Dual diode common cathode	SMD1
5106/019	03, 05	STPS40100	100	30	300	2 x 20A	175	Dual diode common cathode	TO254, SMD1
5106/023	01	STPS80A150	150	14	190	2 x 40A	175	Dual diode common	SMD0.5

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								cathode	
5106/023	02	STPS60A150	150	14	190	2 x 30A	175	Dual diode common cathode	SMD0.5
5106/023	03, 04	STPS40A150	150	14	220	2 x 20A	175	Dual diode common cathode	TO- 254AA
5106/024	02, 03	STPS40A45C	45	25	200	2 x 20A	175	Dual diode common cathode	TO- 254AA
5106/024	01	STPS80A45C	45	25	200	2 x 40A	175	Dual diode common cathode	SMD0.5

Maximum dV/dt= 10 000V/μs

