

6.4.2 Schottky

DIODES, POWER, SCHOTTKY BARRIER, BASED ON TYPES 1N5819U, 1N5822U AND STPS								368Brev1	
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date					
Generic ESCC 5000	STMicroelectronics Rennes France	Qualification	CNES	Sept 2020 Initial qualification date of certificates merged into 368: Cert 272: 11/2002 Cert 302: 09/2010					
		Remarks							
Detail ESCC 5106/020, 5106/021,5106/023, 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
5106/023	01, 05	STPS80A150	150	14	190	2 x 40A	175	Dual diode common cathode	SMD0.5
5106/023	02, 06	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, 04	STPS80A45C	45	25	200	2 x 40A	175	Dual diode common cathode	SMD0.5
Maximum dV/dt= 10 000V/μs									

6.4 DIODES (04)

6.4.1 Bipolar PN

DIODES, POWER, BIPOLAR (PN) BASED ON TYPES 1N5806, 1N5811, 1N6640, 1N6642, BYV, BYW AND STTH				369Brev1					
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date					
Generic ESCC 5000	STMicroelectronics Rennes France	Qualification	CNES	Nov 2020 Initial qualification date of certificates merged into 369: Cert 274: 08/2003 Cert 297: 11/2009 Cert 311: 05/2011					
		Remark: BYV54 has been discontinued and removed from the qualified range from January 2026 QPL (PTN 12408).							
Detail ESCC 5101/026, 5101/027, 5101/013, 5101/014, 5103/032, 5103/033									
Qualified range:									
ESCC component No.	Variant	Type	V _{RWM} (V)	I _R (μA) @ V _{RWM}	I _{FSM} (A)	I _{FRMS} @T _{amb} (A)	T _{jmax} (°C)	Config.	Package
5101/014	13, 14	1N5806	150	0.5	33	2.5	175	Single	LCC2A
5101/013	11, 12	1N5811	150	2	100	6	175	Single	LCC2B
5101/027	07, 08	1N6640U	50	0.04	2	0.3	175	Single	LCC2D
5101/026	07, 08	1N6642U	75	0.05	2	0.3	175	Single	LCC2D
5103/032	01, 02	STTH60400	400	20	500	60	175	Single	SMD1
5103/033	01, 02	STTH40200	200	30	300	40	175	Single	TO254AA
5103/033	03, 04	STTH60200	200	30	300	60	175	Single	SMD1