

CDSU400B(RoHS Device)

High Speed



Features

Designed for mounting on small surface.

Extremely thin/leadless package.

Low leakage current.

High mounting capability, strong surge withstand, high reliability.

Mechanical data

Case: 0603 (1608) standard package,

molded plastic.

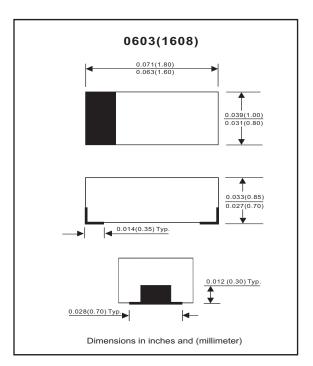
Terminals: Gold plated, solderable per

MIL-STD-750, method 2026.

Marking Code: Cathode band & S4

Mounting position: Any.

Weight: 0.003 gram (approx.).



Maximum Rating (at TA = 25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Repetitive peak reverse voltage		Vrrm			90	V
Reverse voltage		Vr			80	٧
Average forward current		lo			100	mA
Forward current , surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	lfsm		1000		mA
Repetitive peak forward current		IFRM			225	mA
Power dissipation		Po			150	mW
Thermal resistance junction to ambient air		Røja			667	°C/W
Storage temperature		Тѕтс	-55		+125	°C
Junction temperature		Τj			+125	°C

Electrical Characteristics (at TA = 25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Reverse breakdown voltage	I R = 50 uA	VBR	80			V
Forward voltage	I F = 100 mA	VF			1.0	V
Reverse current	V _R = 80 V	lr			0.1	uA
Capacitance between terminals	f = 1MHz, and 0.5VDC reverse voltage	Ст			3	pF
Reverse recovery time	VR = 6V, IF = 10 mA, RL =50 ohms	Trr			4	nS

REV:B



RATING AND CHARACTERISTIC CURVES (CDSU400B)

Fig. 1 - Forward characteristics

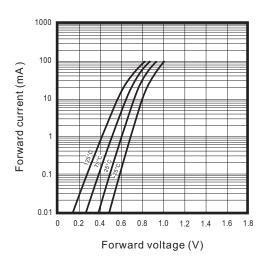


Fig. 3 - Capacitance between terminals characteristics

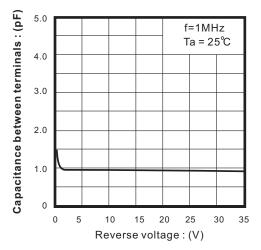


Fig. 2 - Reverse characteristics

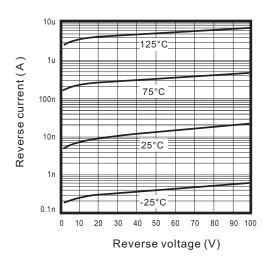
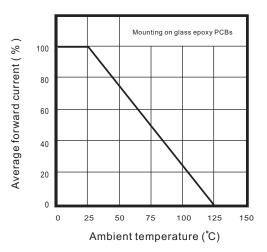
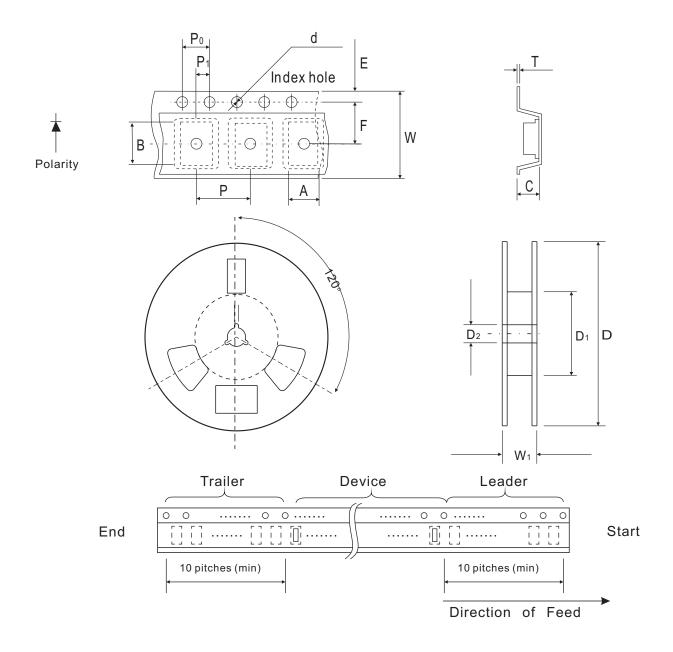


Fig. 4 - Current derating curve





Reel Taping Specification



	SYMBOL	Α	В	С	d	D	D ₁	D ₂
U/0603	(mm)	1.00 ± 0.10	1.85 ± 0.10	1.00 ± 0.10	1.55 ± 0.05	178 ± 1	60.0 MIN.	13.0 ± 0.20
	(inch)	0.039 ± 0.004	0.073 ± 0.004	0.039± 0.004	0.061 ± 0.002	7.008 ± 0.04	2.362 MIN.	0.512 ± 0.008

	SYMBOL	E	F	Р	Po	P ₁	Т	W	W ₁
U/0603	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.23 ± 0.05	8.00 ± 0.20	13.5 MAX.
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.009 ± 0.002	0.315 ± 0.008	0.531 MAX.



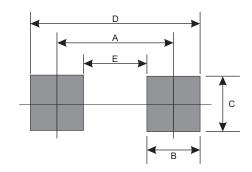
Marking Code

Park Number	Marking Code
CDSU400B	S4



Suggested PAD Layout

SIZE	U/0603			
SIZE	(mm)	(inch)		
Α	1.70	0.067		
В	0.60	0.024		
С	0.80	0.031		
D	2.30	0.091		
E	1.10	0.043		



Standard Package

Case Type	Qty per Reel	Reel Size	
Case Type	(Pcs)	(inch)	
U/0603	4000	7	