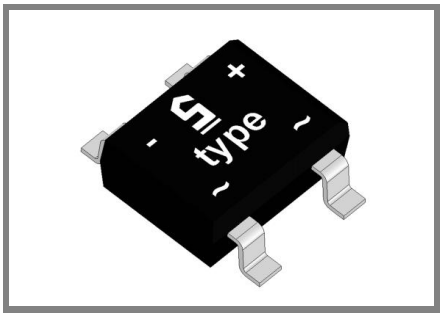
CS 10S ... CS 50S ...



Surface mount Schottky

Type	Repetitive peak reverse voltage V_{RRM} V	Surge peak reverse voltage V_{RSM} V	Max. reverse recovery time I_F = A, I_R = A, I_{RR} = A, t_{rr} ns	Max. forward voltage V_F 2)
CS 10S	20	20	/	< 0,50
CS 20S	40	40	/	< 0,50
CS 30S	60	60	/	< 0,70
CS 40S	80	80	/	< 0,79
CS 50S	100	100	/	< 0,79

Bridge rectifiers

CS 10S ... CS 50S

Forward Current: 1 A

Reverse Voltage: 10 to 50 V

Publish Data

Features

- Standard packaging taped and reeled

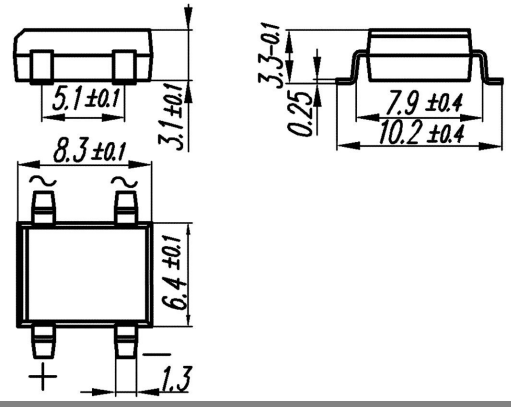
Mechanical Data

- Plastic case SO-DIL 8.5x6.6x3.1 mm
- Weight approx. 0.6 g
- 2) I_F = 1A, T_j = 25ºC

Absolute Maximum Ratings	T_c = 25ºC unless otherwise specified		
Symbol	**Conditions**	**Values**	**Units**
I_{FAV}	Max. averaged fwd. current, R-load, T_A = 50 °C 1)	1	A
I_{FRM}	Repetitive peak forward current f > 15 Hz 1)	10	A
I_{FSM}	Peak forward surge current 50 Hz half sinus-wave 3)	40	A
i²t	Rating for fusing, t < 10 ms 3)	8	A²s
R_{thA}	Max. thermal resistance junction to ambient 1)	60	K/W
R_{thT}	Max. thermal resistance junction to terminals 1)		K/W
T_j	Operating junction temperature	-50 ... +150ºC	°C
T_s	Storage temperature	-50 ... +150ºC	°C

Characteristics	T_c = 25ºC unless otherwise specified		
Symbol	**Conditions**	**Values**	**Units**
I_R	Maximum leakage current, T_j = 25 °C; V_R = V_{RRM}	0,5	mA
	T_j = 100 °C; V_R = V_{RRM}	5	mA
C_J	Typical junction capacitance (at MHz and applied reverse voltage of V)		pF
Q_{rr}	Reverse recovery charge (U_R = V; I_F = A; dI_F/dt = A/ms)		µC
E_{RSM}	Non repetitive peak reverse avalanche energy (I_R = mA; T_j = °C; inductive load switched off)		mJ

Dimensions in mm



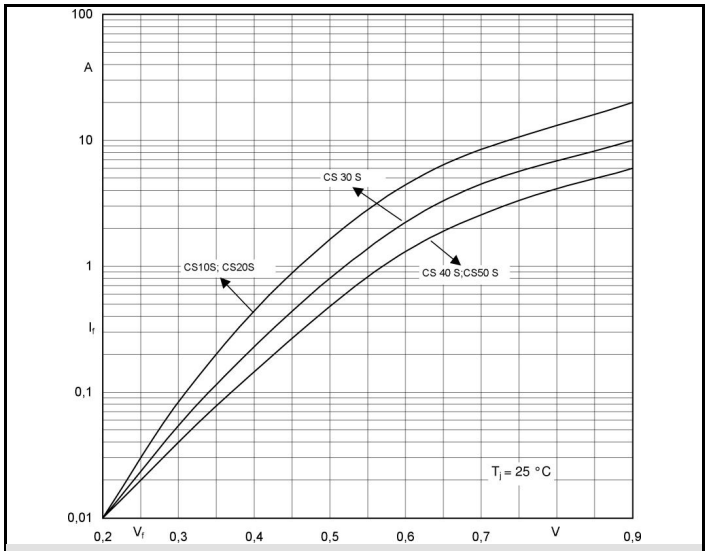


Fig. 1 : Forward characteristic (typical values)

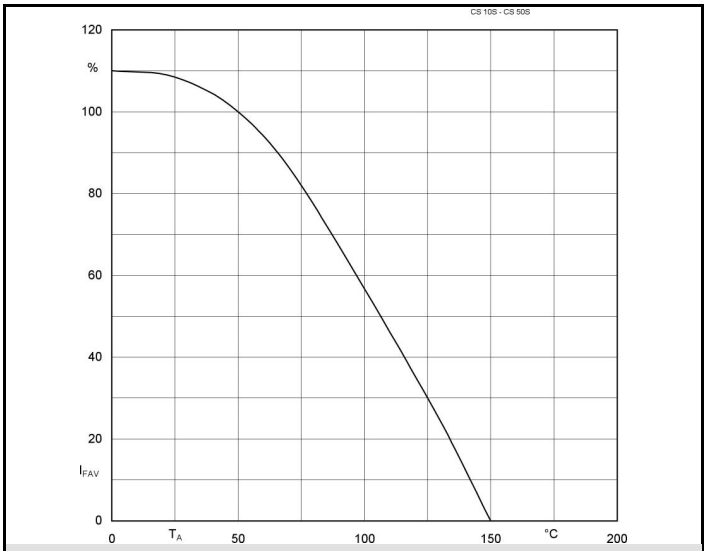


Fig. 2 : Rated current vs. ambient temperature

