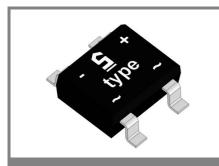
CS 10S ... CS 50S ...



Surface mount Schottky

Bridge rectifiers

CS 10S ... CS 50S

Forward Current: 1 A

Reverse Voltage: 10 to 50 V

Publish Data

Features

• Standard packaging taped and reeled

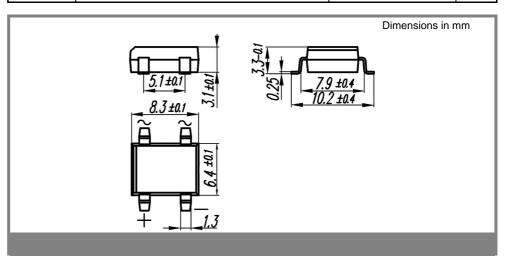
Mechanical Data

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

-	D	• •		
Туре	Repetitive peak	Surge peak	Max. reverse	Max.
	reverse voltage	reverse voltage	recovery time	forward
				voltage
			I _F = A	
			I _R = A	
			I _{RR} = A	
	V _{RRM}	V _{RSM}	t _{rr}	
	V	V	ns	V _F ²⁾
CS 10S	20	20	1	< 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

Absolute Maximum Ratings T _c = 25°C unless otherwise specified				
Symbol	Conditions	Values	Units	
I _{FAV}	Max. averaged fwd. current, R-load, T _A = 50 °C $^{1)}$	1	А	
I _{FRM}	Repetitive peak forward current f > 15 Hz ¹⁾	10	А	
I _{FSM}	Peak forward surge current 50 Hz half sinus-wave ³⁾	40	А	
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 +150°C	°C	
Τ _s	Storage temperature	-50 +150°C	°C	

Characte	acteristics T _c = 25°C unless otherwise specified		
Symbol	Conditions	Values	Units
I _R	Maximum leakage current, T_j = 25 °C; V_R = V_{RRM}	0,5	mA
	$T_j = 100 \text{ °C}; V_R = V_{RRM}$	5	mA
CJ	Typical junction capacitance		pF
	(at MHz and applied reverse voltage of V)		
Q _{rr}	Reverse recovery charge		μC
	$(U_R = V; I_F = A; dI_F/dt = A/ms)$		
E _{RSM}	Non repetitive peak reverse avalanche energy		mJ
	$(I_R = mA; T_j = °C; inductive load switched off)$		



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

