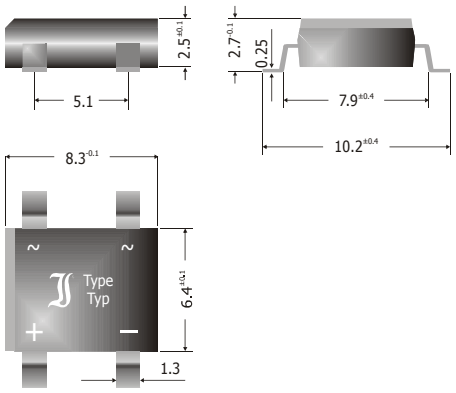
CS10S ... CS50S

"Slim" Profile Surface Mount Schottky-Bridge-Rectifiers
Schottky-Brückengleichrichter für die Oberflächenmontage mit „schlanker" Bauhöhe

Version 2013-07-26



Dimensions - Maße [mm]

Nominal current Nennstrom	1 A
Alternating input voltage Eingangswechselspannung	10...50 V
Plastic case SO-DIL **"SLIM"** Kunststoffgehäuse SO-DIL **"SLIM"**	8.3 x 6.4 x **2.5** [mm]
Weight approx. – Gewicht ca.	0.1 g
Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert	
Standard packaging taped and reeled Standard Lieferform gegurtet auf Rolle	

Recognized Product – Underwriters Laboratories Inc.® File E175067
Anerkanntes Produkt – Underwriters Laboratories Inc.® Nr. E175067

Maximum ratings and characteristics **Grenz- und Kennwerte**

Type Typ	Max. alternating input voltage Max. Eingangswechselspannung V_{VRMS} [V]	Repetitive peak reverse voltage Period. Spitzensperrspannung V_{RRM} [V]	Forward voltage Durchlass-Spannung V_F [V] [1,2])
CS10S	10	20	< 0.50
CS20S	20	40	< 0.50
CS30S	30	60	< 0.70
CS40S	40	80	< 0.79
CS50S	50	100	< 0.79

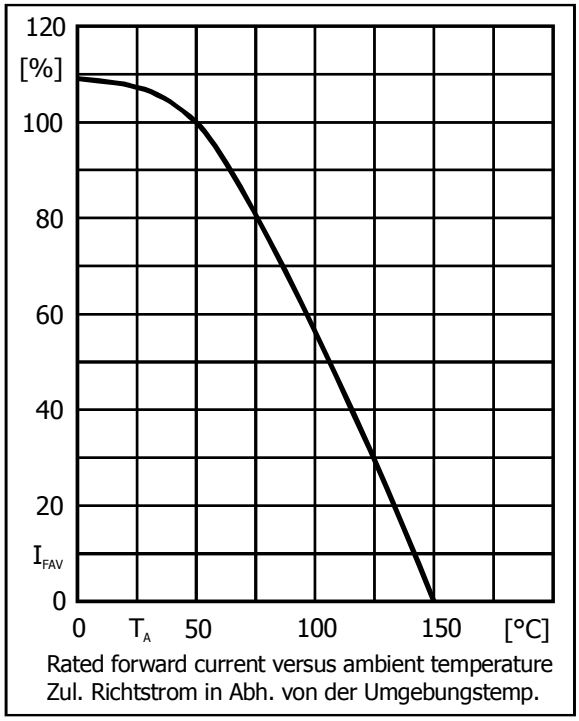
Repetitive peak forward current Periodischer Spitzenstrom	f > 15 Hz	I_{FRM}	10 A [3])
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwelle	T_A = 25°C	I_{FSM}	40/44 A
Rating for fusing, t < 10 ms Grenzlastintegral, t < 10 ms	T_A = 25°C	i^2t	8 A^2s
Operating junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_S	-50...+150°C -50...+150°C

1 I_F = 1 A, T_j = 25°C
2 Per Diode – Pro Diode
3 Max. temperature of the terminals T_T = 100°C – Max. Temperatur der Anschlüsse T_T = 100°C

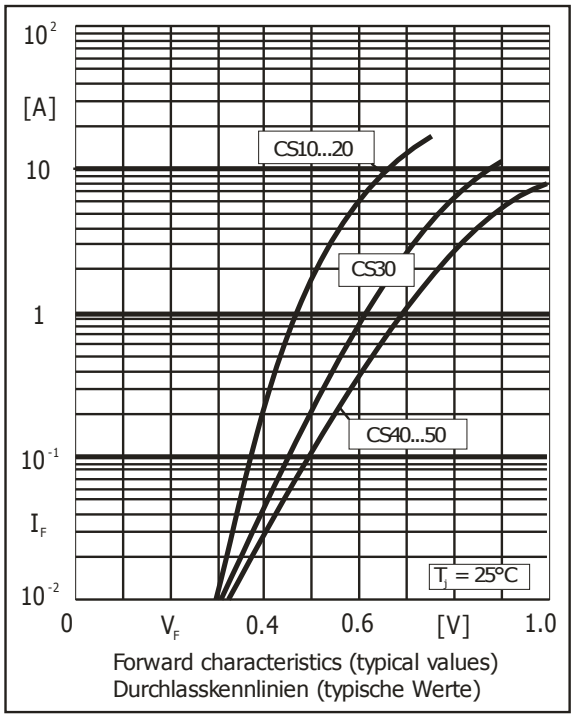
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Characteristics **Kennwerte**

Max. average forward rectified current Dauergrenzstrom	T_A = 50°C	R-load C-load	I_{FAV} I_{FAV}	1.0 A [1]) 0.8 A [1])
Leakage current Sperrstrom	T_j = 25°C T_j = 100°C	$V_R = V_{RRM}$ $V_R = V_{RRM}$	I_R I_R	< 0.5 mA < 5.0 mA
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft			R_{thA}	< 60 K/W[1])



Rated forward current versus ambient temperature
Zul. Richtstrom in Abh. von der Umgebungstemp.



Forward characteristics (typical values)
Durchlasskennlinien (typische Werte)

1 Mounted on P.C. Board with 25 mm² copper pads at each terminal
Montage auf Leiterplatte mit 25 mm² Kupferbelag (Lötpad) an jedem Anschluss

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