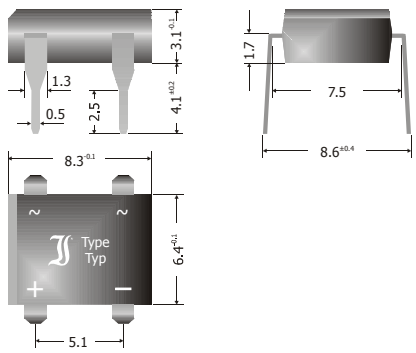
CS10D ... CS50D

Schottky-Bridge-Rectifiers
Schottky-Brückengleichrichter

Version 2006-04-22



Dimensions - Maße [mm]

Nominal current Nennstrom	1 A
Alternating input voltage Eingangswechselspannung	10...50 V
Plastic case DIL Kunststoffgehäuse DIL	8.3 x 6.4 x 3.1 [mm]
Weight approx. – Gewicht ca.	0.4 g
Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert	
Standard packaging: plastic tubes Standard Lieferform: Plastik-Schienen	

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

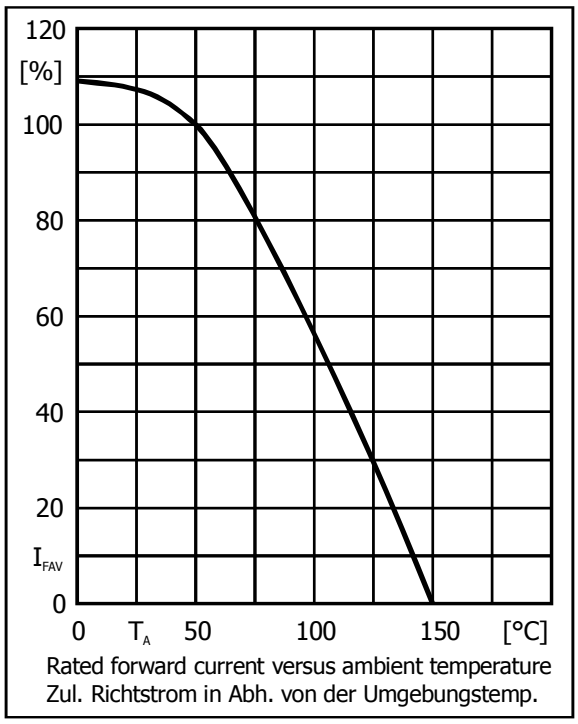
Maximum ratings and characteristics **Grenz- und Kennwerte**

Type Typ	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V]	Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V]	Forward voltage Durchlass-Spannung V_F [V] [1,2])
CS10D	10	10	< 0.50
CS20D	20	20	< 0.50
CS30D	30	30	< 0.50
CS40D	40	40	< 0.79
CS50D	50	50	< 0.79

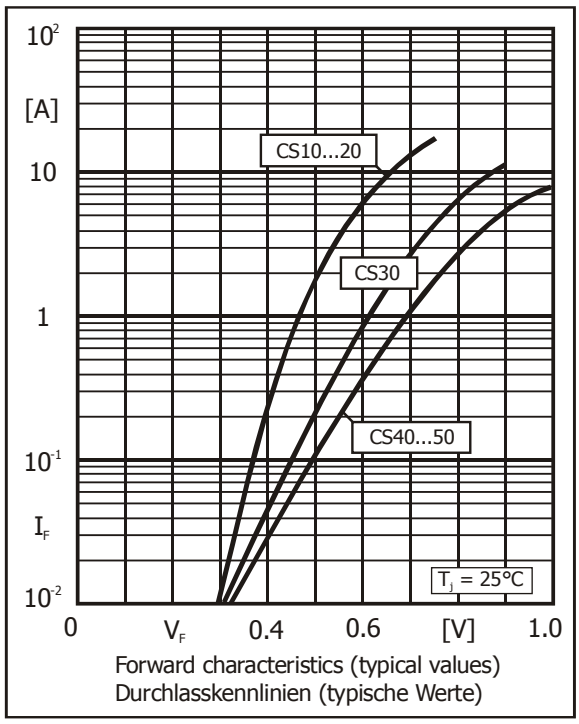
Repetitive peak forward current Periodischer Spitzenstrom	f > 15 Hz	I_{FRM}	10 A [3])
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwelle	T_A = 25°C	I_{FSM}	40/44 A
Rating for fusing, t < 10 ms Grenzlastintegral, t < 10 ms	T_A = 25°C	i^2t	8 A^2s
Operating junction 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 Valid for one branch – Gültig für einen Brückenzweig
3 Max. temperature of the terminals T_T = 100°C – Max. Temperatur der Anschlüsse T_T = 100°C

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