DIGITRON SEMICONDUCTORS

MR4422CT **30A SCHOTTKY RECTIFIER**

MAXIMUM RATINGS

Rating	Symbol	MR4422CT	Unit
Peak repetitive reverse voltage **Working peak reverse voltage** **DC blocking voltage**	V_{RRM} V_{RWM} V_R	100	V
Average rectified forward current (Rated V_R)	$I_{F(AV)}$	30 @ T_C = 125°C	A
Peak repetitive forward current (Rated V_R, square wave, 20 kHz)	I_{FRM}	30 @ T_C = 125°C	A
Peak repetitive reverse surge current (2.0µs, 1.0 kHz)	I_{RRM}	2	A
Non-repetitive peak surge current (surge applied at rated load conditions, halfwave, single phase, 60Hz)	I_{FSM}	400	A
Operating junction temperature range	T_J	-65 to +150	°C
Storage junction temperature range	T_{stg}	-65 to +175	°C
Maximum thermal resistance Junction to case	$R_{\Theta JC}$	1.4	°C/W

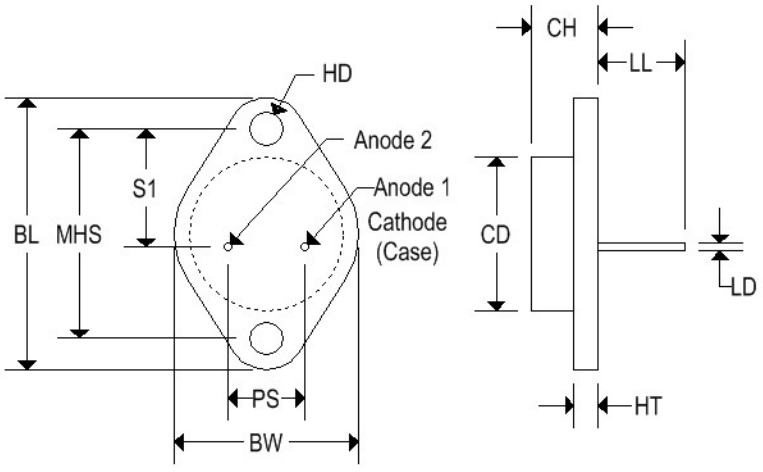
ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Parameter	Symbol	MR4422CT	Unit
Maximum instantaneous forward voltage (1) (I_F = 15A, T_C = 25°C) (I_F = 10A, T_C = 125°C)	V_F	1.2 1.1	V
Maximum instantaneous reverse current (1) (Rated dc voltage, T_C = 25°C) (Rated dc voltage, T_C = 125°C)	I_R	1.0 250	mA

Note 1: Pulse test: Pulse width = 300µs, duty cycle ≤ 2.0%.

MECHANICAL CHARACTERISTICS

Case	TO-3 Dual
Marking	Alpha-numeric
Pin out	See below



	TO-3 Dual			
	Inches		Millimeters	
	Min	Max	Min	Max
CD	-	0.875	-	22.220
CH	0.250	0.380	6.860	9.650
HT	0.060	0.135	1.520	3.430
BW	-	1.050	-	26.670
HD	0.131	0.188	3.330	4.780
LD	0.038	0.043	0.970	1.090
LL	0.312	0.500	7.920	12.700
BL	1.550 REF		39.370 REF	
MHS	1.177	1.197	29.900	30.400
PS	0.420	0.440	10.670	11.180
S1	0.655	0.675	16.640	17.150

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).
Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

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