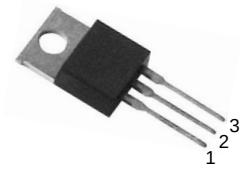
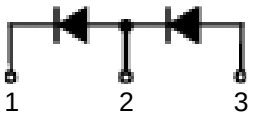
SDD10

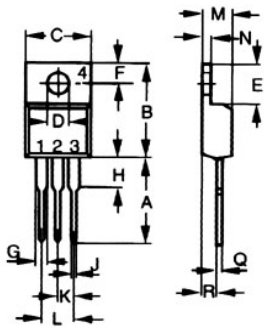
Discrete Diodes





	V_{RSM} V	V_{RRM} V
SDD10N01	50	50
SDD10N02	100	100
SDD10N03	200	200
SDD10N04	400	400
SDD10N05	600	600
SDD10N06	800	800
SDD10N07	1000	1000

Dimensions TO-220AB



Dim.	Inches Min.	Inches Max.	Milimeter Min.	Milimeter Max.
A	0.500	0.550	12.70	13.97
B	0.580	0.630	14.73	16.00
C	0.390	0.420	9.91	10.66
D	0.139	0.161	3.54	4.08
E	0.230	0.270	5.85	6.85
F	0.100	0.125	2.54	3.18
G	0.045	0.065	1.15	1.65
H	0.110	0.230	2.79	5.84
J	0.025	0.040	0.64	1.01
K	0.100	BSC	2.54	BSC
M	0.170	0.190	4.32	4.82
N	0.045	0.055	1.14	1.39
Q	0.014	0.022	0.35	0.56
R	0.090	0.110	2.29	2.79

Symbol	Test Conditions		Maximum Ratings	Unit
$I_{F(AV)M}$	T_C=100°C; 180° sine		10	A
I_{FSM}	T_{VJ}=45°C;	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	100 110	A
	T_{VJ}=150°C;	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	90 100	
I^2t	T_{VJ}=45°C;	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	50 50	A^2s
	T_{VJ}=150°C;	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	41 42	
T_{VJ} T_{VJM} T_{stg}			-40...+180 180 -40...+150	°C
M_d	Mounting torque		0.4...0.6	Nm
Weight			4	g

Symbol	Test Conditions	Characteristic Values	Unit
I_R	T_{VJ}=T_{VJM}; V_R=V_{RRM}	≤ 0.5	mA
V_F	I_F=45A; T_{VJ}=25°C	≤ 1.15	V
V_{TO}	For power-loss calculations only	0.8	V
r_T	T_{VJ}=T_{VJM}	40	mΩ
R_{thJC}	DC current	3.5	K/W

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