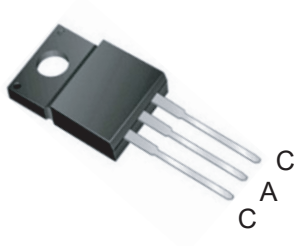
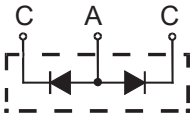
DSEA10S06UF

SUPER FAST RECTIFIER

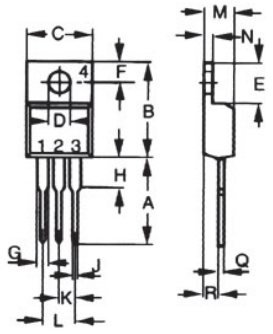
Reverse Voltage - 600 Volts *Forward Current - 10.0 Amperes*



A=Anode, C=Cathode



Dimensions ITO-220AB



Dim.	Inches		Milimeter	
	Min.	Max.	Min.	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

Rating	Symbol	DSEA10S06UF	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	600	V
DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Current	I_{AV}	10	A
Peak Forward Surge Current ,8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	75	A
Maximum Forward Voltage at 5A,per element	V_F	1.70	V
Maximum DC Reverse Current at T_A=25ºC Rated DC Blocking Voltage T_A=100ºC	I_R	5 500	μA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	35	ns
Maximum Thermal Resistance(Note 2)	$R_{\Theta-JC}$	6.5	ºC/W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150	ºC

NOTES:

1. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, Irr=.25A.
2. Thermal resistance from junction to case.

FEATURES

* Glass passivated chip
* Fast switching time for high efficiency
* Low forward voltage drop and high current capability
* Low reverse leakage current
* High surge capacity

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FIG.1 - FORWARD CURRENT DERATING CURVE

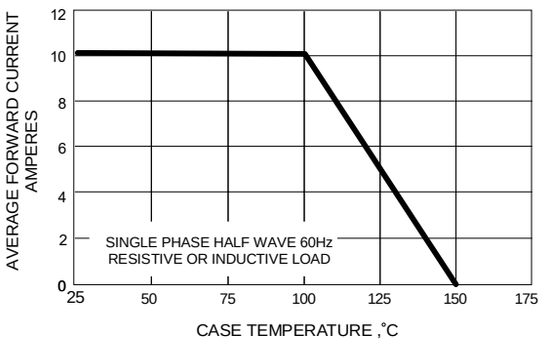


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

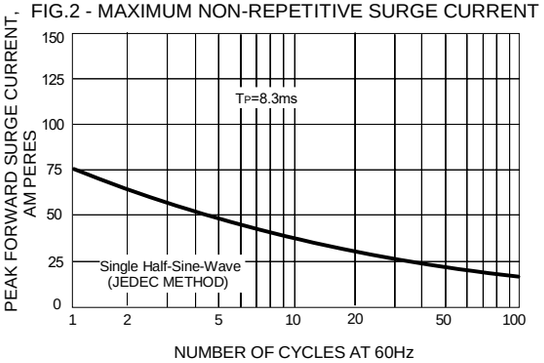


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

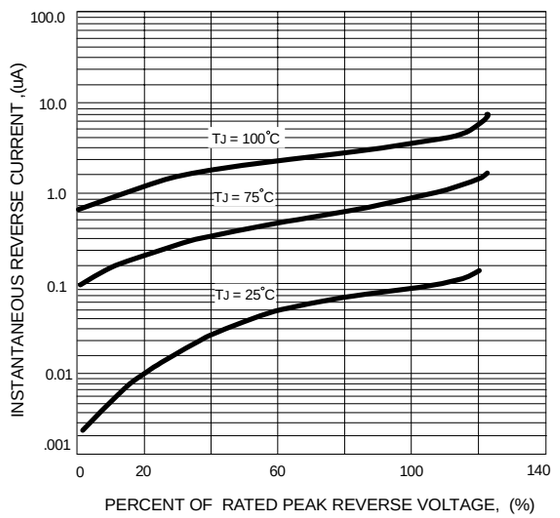
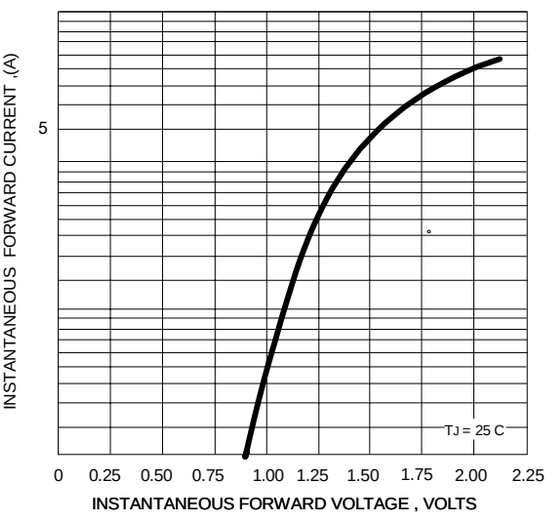


FIG.4 - TYPICAL FORWARD CHARACTERISTICS



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