



THERMAL PERFORMANCE						
PARAMETER	SYMBOL	TYP	UNIT			
Junction-to-case thermal resistance	R _{eJC}	1.9	°C/W			

ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)						
PARAMETER	CONDITIONS	SYMBOL	TYP	MAX	UNIT	
	I _F = 15A, T _J = 25°C	V _F	0.45	-	V	
Forward voltage per diode ⁽¹⁾	$I_F = 30A, T_J = 25^{\circ}C$		0.57	0.67	V	
	I _F = 15A, T _J = 125°C		0.41	-	V	
Reverse current @ rated V _R per diode ⁽²⁾	T _J = 25°C	I _R	-	650	μA	
	T _J = 125°C		-	250	mA	

Notes:

- 1. Pulse test with PW = 0.3ms
- 2. Pulse test with PW = 30ms

ORDERING INFORMATION				
ORDERING CODE	PACKAGE	PACKING		
TST30L45C	TO-220AB	50 / Tube		

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CHARACTERISTICS CURVES

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

Fig.1 Forward Current Derating Curve

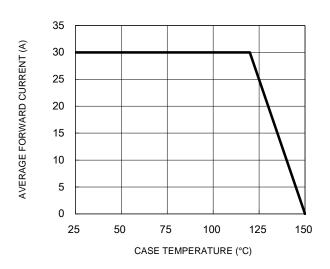


Fig.3 Typical Reverse Characteristics

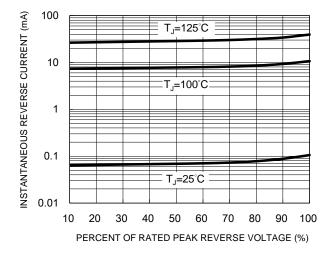


Fig.2 Typical Junction Capacitance

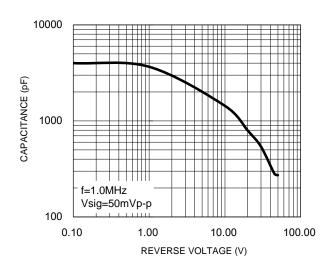
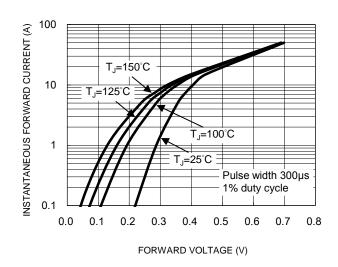


Fig.4 Typical Forward Characteristics



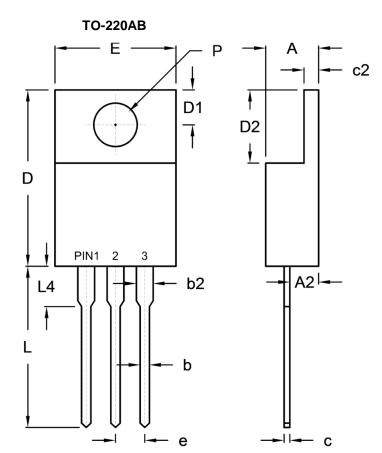
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PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)		
DIWI.	Min.	Max.	Min.	Max.	
Α	4.42	4.76	0.174	0.187	
A2	2.20	2.80	0.087	0.110	
b	0.68	0.94	0.027	0.037	
b2	1.14	1.77	0.045	0.070	
С	0.35	0.64	0.014	0.025	
c2	1.14	1.40	0.045	0.055	
D	14.60	16.00	0.575	0.630	
D1	2.62	3.44	0.103	0.135	
D2	5.84	6.86	0.230	0.270	
E		10.50		0.413	
е	2.41	2.67	0.095	0.105	
L	13.19	14.79	0.519	0.582	
L4	2.80	4.20	0.110	0.165	
Р	3.54	4.00	0.139	0.157	

MARKING DIAGRAM



P/N = Marking Code G = Green Compound

YWW = Date Code F = Factory Code

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