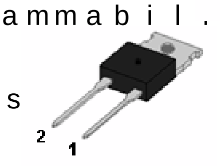
JECR[illegible]6CL

EPI HYPERFAST SOFT RECOVERY RECTIFIER

Rev.1.5

DESCRIPTION

- Plastic package has Underwriters laboratory flammability classification 94V-0
- Lead free in comply with RoHS 2011/65/EU directives
- Low reverse leakage current
- Hyperfast recovery time and soft recovery characteristics
- Low recovery loss
- Applications: PFC circuit, high frequency switched-mode power supplies, current ... power factor correction (PFC)



TO-220C-2L

Symbol

MECHANICAL DATA

- Case: TO-220C-2L molded plastic over passivated junction
- Terminals: Solder plated, solderable per J-STD-002
- Weight: 2 gram

ABSOLUTE MAXIMUM RATING (Rating at 25 ambient temperature unless otherwise specified)

Parameter	Symbol	JECR[illegible]6CL	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum DC blocking voltage	V_{DC}	600	V
Average forward current at T_{mb}=127	$I_{F(AV)}$	1	3
10ms single half sine-wave superimposed on rated load			
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150	[illegible]

ELECTRICAL CHARACTERISTICS (Rating at 25 ambient temperature unless otherwise spec

Parameter				[redacted]		Uni
Forward voltage	I_F = 1 A, T_j = 25	V_F	-	2.5	3.2	V
	I_F = 1 A, T_j = 15		-	1.3	2	
Reverse current	V_R = 6 V, T_j = 25	I_R	-	-	5	μA
	V_R = 6 V, T_j = 15		-	-	3	
Reverse recovery time	I_F = 1 A, V_R = 3 V, di/dt = 2 A/μs, T_j = 25	t_{rr}	-	12	18	ns
	I_F = 1 A, V_R = 4 V, di/dt = 5 A/μs, T_j = 25		-	19	-	
	I_F = 1 A, V_R = 2 V, di/dt = 2 A/μs, T_j = 25		-	26	-	
	I_F = 1 A, V_R = 2 V, di/dt = 2 A/μs, T_j = 125		-	34	-	
Peak reverse recovery current	I_F = 1 A, V_R = 2 V, di/dt = 2 A/μs, T_j = 25	I_{RM}	-	2	-	A
	I_F = 1 A, V_R = 2 V, di/dt = 2 A/μs, T_j = 125		-	4.8	-	
Recovered charge	I_F = 1 A, V_R = 2 V, di/dt = 2 A/μs, T_j = 25	Q_r	-	26	- a	ʹO

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PACKAGE INFORMATION

CHARACTERITICS CURVE

FIG.1 : Typical forward	FIG.2 : Typical reverse

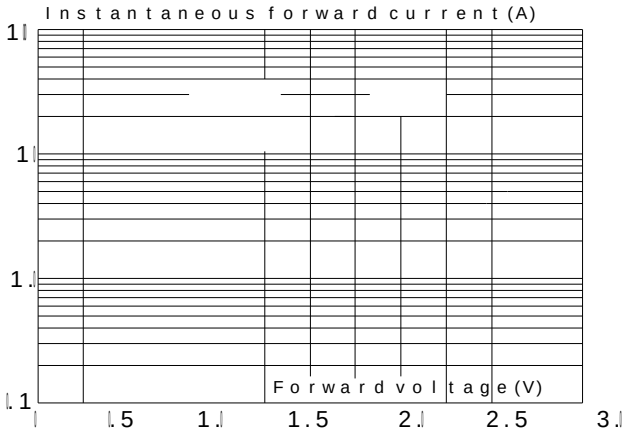


FIG.5: Forward current

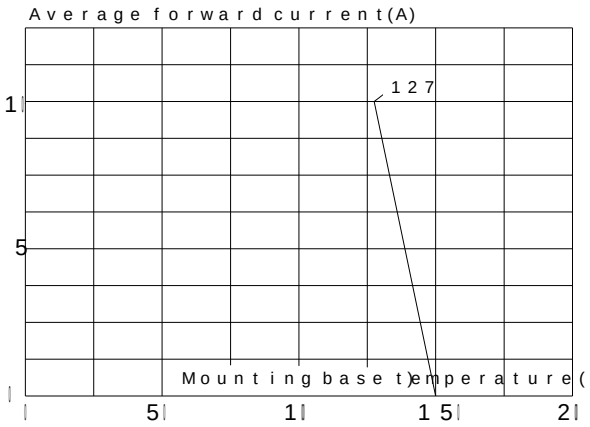


FIG.6: Reverse recover

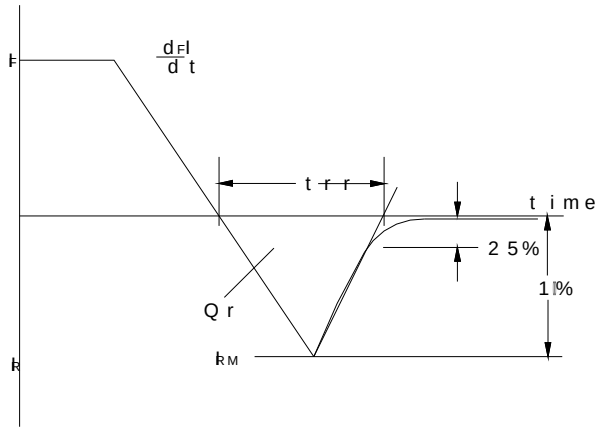


FIG.7: Forward power diss forward current(squar

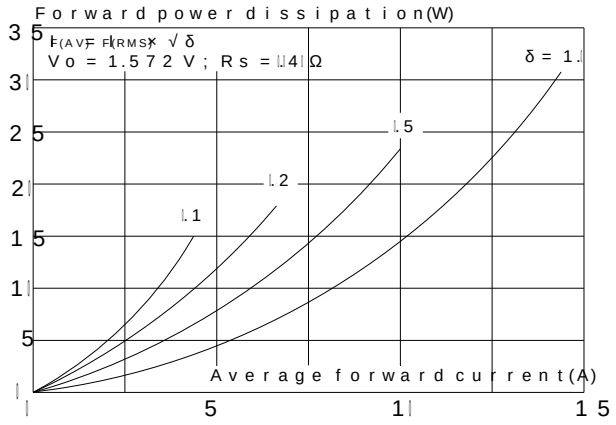
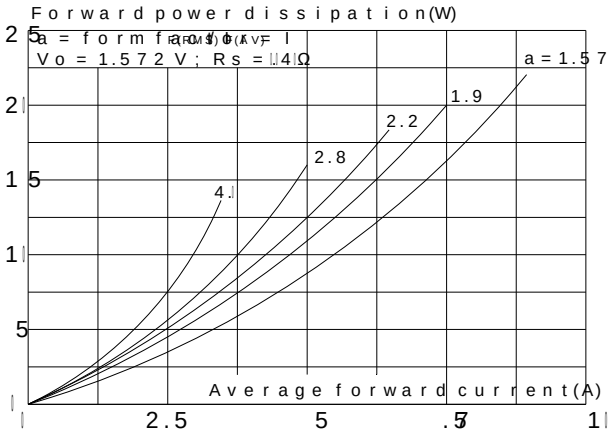


FIG.8: Forward power diss forward current(sinus



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