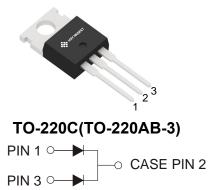


Features

- Low Power Loss, High Efficiency
- Guard Ring Die Construction for Transient Protection
- High Current Capability and Low Forward Voltage Drop



Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter	Limit	Unit
V_{RRM}	Peak repetitive reverse voltage		
V_{RWM}	Working peak reverse voltage	45	V
V_{R}	DC blocking voltage		
V _{R(RMS)}	RMS reverse voltage	31.5	V
lo	Average rectified output current	Ю	Α
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	280	Α
R⊚Jc	Thermal resistance from junction to case ,Tc=25°C	2.0	°C/W
R _{⊝JA}	Thermal resistance from junction to ambient	62.5	°C/W
Ti	Junction temperature	150	°C
T _{stg}	Storage temperature	-55~+150	°C

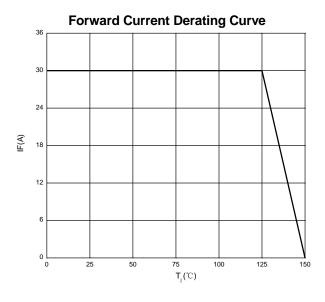
Electrical Characteristics(Ta=25°C unless otherwise specified)

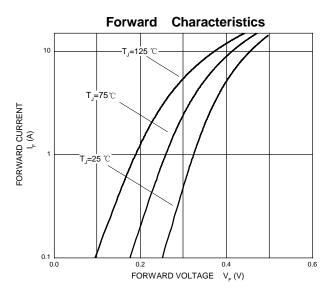
Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	$V_{(BR)}$	IR=0.1mA		45			V
D	I _R	V _R =45V	Tj =25°C		40	150	uA
Reverse current			Tj =125°C		23		mA
	e V _F	I _F =F€A	Tj =25°C		0.44		V
Forward voltage			Tj =125°C		0.37		V
i orward voitage		I _F =1Í A	Tj =25°C		0.48	0.55	V
			Tj =125°C		0.44		V

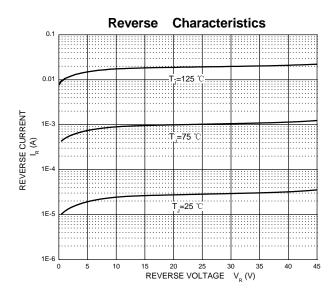
^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.

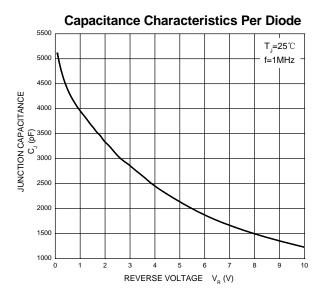


Typical Characteristics



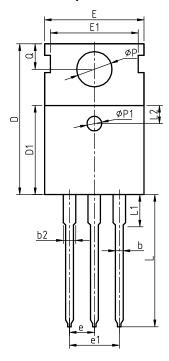


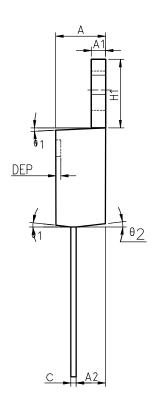




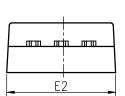


Package Information TO-220C(TO-220AB-3)





COMMON DIMENSIONS



SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX
Α	4.40	4.57	4.70	0.173	0.180	0.185
A1	1.27	1.30	1.33	0.050	0.051	0.052
A2	2.35	2.40	2.50	0.093	0.094	0.098
b	0.77	0.80	0.90	0.030	0.031	0.035
b2	1.17	1.27	1.36	0.046	0.050	0.054
С	0.48	0.50	0.56	0.019	0.020	0.022
D	15.40	15.60	15.80	0.606	0.614	0.622
D1	9.00	9.10	9.20	0.354	0.358	0.362
DEP	0.05	0.10	0.20	0.002	0.004	0.008
E	9.80	10.00	10.20	0.386	0.394	0.402
E1	i	8.70	ı	-	0.343	-
E2	9.80	10.00	10.20	0.386	0.394	0.402
е		2.54	BSC		0.100	BSC
e1		5.08	BSC		0.200	BSC
H1	6.40	6.50	6.60	0.252	0.256	0.260
Г	12.75	13.50	13.65	0.502	0.531	0.537
L1	-	3.10	3.30	-	0.122	0.130
L2		2.50	REF		0.098	REF
Р	3.50	3.60	3.63	0.138	0.142	0.143
P1	3.50	3.60	3.63	0.138	0.142	0.143
Q	2.73	2.80	2.87	0.107	0.110	0.113
θ1	5°	7°	9°	5°	7°	9°
θ2	1°	3°	5°	1°	3°	5°
θ3	1°	3°	5°	1°	3°	5°



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