

Transient Voltage Suppressors Diodes	Reverse Voltage - 24 to 30 Volts power dissipation - 600 Watts
<p>Features</p> <ul style="list-style-type: none"> ● low leakage ● Uni and bidirectional unit ● Excellent clamping capability ● Fast response time ● AEC-Q101 qualified <p>Mechanical Data</p> <ul style="list-style-type: none"> ● Case : Molded Plastic 	<p>DO-15</p> <p style="text-align: right;"> </p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristics	Symbol	VALUE	Unit
Peak power dissipation with a 10/1000us waveform	PPPM	600	W
Peak pulse current with a 10/1000us waveform	I _{PPM}	See Next Table	A
Maximum instantaneous forward Voltage (1)	V _F	3.5/5.0	V
Thermal resistance junction to lead	R _{θJL}	20	°C/W
Thermal resistance junction to ambient	R _{θJA}	75	°C/W
Power dissipation on infinite heat sink at T _L =75°C	P _D	5	W
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	100	A
Operating Temperature Range	T _J	-55 to + 150	°C
Storage Temperature Range	T _{STG}	-55 to + 150	°C

NOTES:1.V_F = 3.5 V for P6KE220(A) and below; V_F = 5.0 V for P6KE250(A) and above

Part Number(U ni)	Part Number(Bi)	Breakdown Voltage $V_{BR}@I_T$			imum Reverse Leakage $I_R @$	V_{RWM} Working Peak Reverse Voltage	Maximum Reverse Surge Current IPP	Maximum Clamping Voltage V_c
		Min(V)	Max (V)	I_T (mA)				
P6KEG24A	P6KEG24CA	22.8	25.2	1.0	5.0	20.5	18.1	33.2
P6KEG30A	--	28.5	31.5	1.0	5.0	25.6	14.5	41.4

Rating and Characteristic Curves

FIG1: Peak Pulse Power Rating Curve

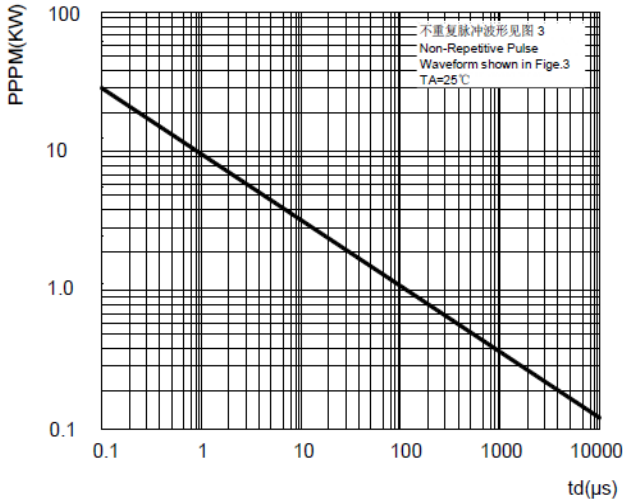


FIG2: Pulse Power or Current vs. Initial Junction Temperature

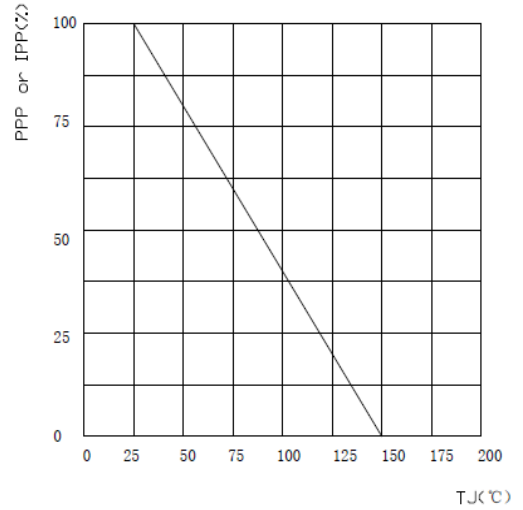


FIG3: Pulse Waveform

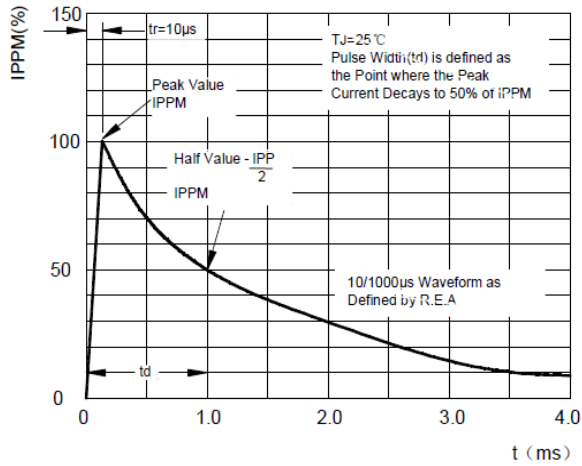


FIG4: Power Derating Curve

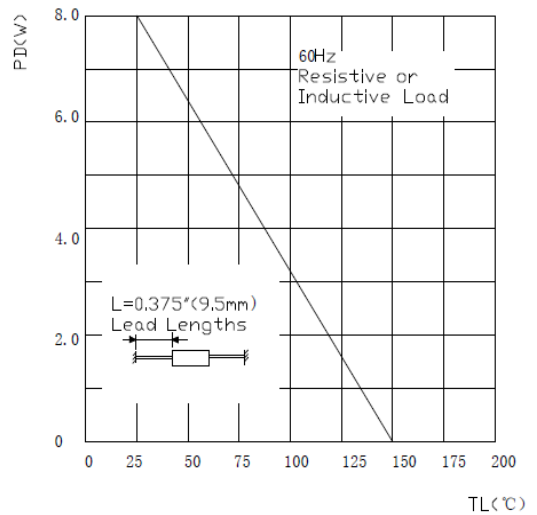


FIG5: Maximum Non-Repetitive Surge Current

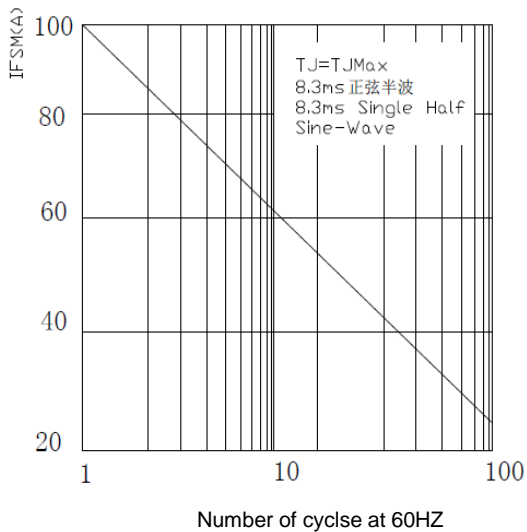
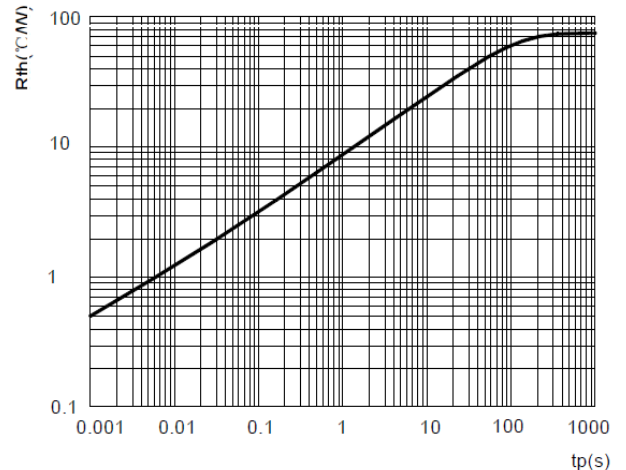


FIG6: Typical Transient Thermal Impedance



The curve above is for reference only.



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