TAR5025 50.0 AMPS. Load Dump Rectifiers Voltage Range 24 to 30 Volts Current 50.0 Amperes AR **Features** .225(5.7) Plastic material used carries Underwriters Laboratory Classification 94V-O Low cost construction utilizing void-free molded plastic technique Low cost Diffused junction Low leakage High surge capability High temperature soldering guaranteed: 260°C for 10 seconds **Mechanical Data** Case: Molded plastic case Terminals: Plated terminals, solderable per MIL-STD-202. Method 208

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Polarity: Color ring denotes cathode end Weight: 0.07 ounce, 1.8 grams Mounting position: Any

Symbol	TAR	TAR5025	
V_{RRM}			
	22		V
V_{DC}			
V_Z	24 Min	30 Max	V
Vc	35		V
I _F	50		А
I _{FSM}	720		А
I _{RSM}	130		А
V_{F}	1.08		V
I _R	500		nA
$R \theta JC$	0.6		C /W
T_J, T_{STG}	-50 to +175		C
	Symbol V _{RRM} V _{RMS} V _{DC} V _Z V _C I _F I _{FSM} V _F I _R R θ JC	Symbol TAR V _{RRM} 2 V _{DC} 24 Min V _C 3 I _F 5 I _{FSM} 72 I _{RSM} 13 V _F 1.4 I _R 50 R θ JC 0.0	Symbol TAR5025 V _{RRM} 22 V _{DC} 24 Min 30 Max V _C 35 I _F 50 I _{FSM} 720 I _{RSM} 130 V _F 1.08 I _R 500 R θ JC 0.6

Dimensions in inches and (millimeters)

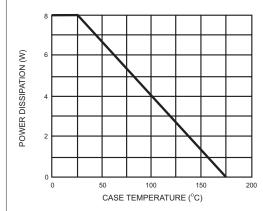
Notes: 1. Reverse Zener Voltage Test Conditions: IR=5mA, TC=25°C, PW=30mS.

- 2. VC Test Conditions: IR=100A, TC=25°C, PW=100uS.
- 3. Single Side Cooled.



RATINGS AND CHARACTERISTIC CURVES (TAR5025)

FIG.1- POWER DERATING CURVE



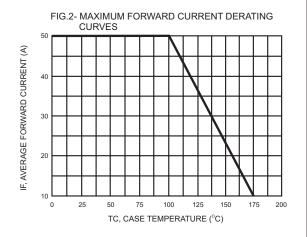


FIG.3- PULSE WAVEFORM

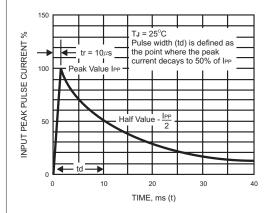


FIG.4- REVERSE POWER DERATING

