

## **TAR3525**

# 35.0 AMPS. Load Dump Rectifiers



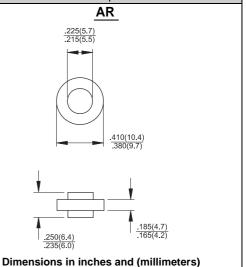
Voltage Range 24 to 32 Volts Current 35.0 Amperes

#### **Features**

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



### **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%

Type Number	Symbol	TAR	TAR3525	
Maximum Recurrent Peak Revere Voltage	$V_{RRM}$			
Working Peak Reverse Voltage	$V_{RMS}$	20		V
Maximum DC Blocking Voltage	$V_{DC}$			
Reverse Zener Voltage (Note 1)	$V_Z$	24 Min	32 Max	V
Maximum Clamping Voltage VC (Note 2)	Vc	35		V
Maximum Average Forward Rectified Current  @ Tc = 100°C	I <sub>F</sub>	35		А
Non-Repetitive Peak Forward Surge Current, (half wave, single phase, 60 Hz sine applied to rated load)	I <sub>FSM</sub>	600		А
Repetitive Peak Reverse Surge Current (Time Constant = 10 mSec Duty Cycle <1.0%, TC=25°C	I <sub>RSM</sub>	110		А
MaximumInstantaneous Forward Voltage (IF=100A @ 400uSec pulse, Tc=25℃)	$V_{F}$	1.	1.1	
Maximum DC Reverse Current (at Rated DC Blocking Voltage @Tc=25℃)	I <sub>R</sub>	200		nA
Maximum Thermal Resistance, Junction to Case (Note 3)	$R \theta_{JC}$	0.8		C/W
Operating and Storage Temperature Range	$T_J$ , $T_{STG}$	-50 to	-50 to +175	

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

- 2. VC Test Conditions: IR=65A, TC=25°C, PW=100uS.
- 3. Single Side Cooled.



