

**25/35 AMPS, GLASS PASSIVATED  
AUTOMOTIVE RECTIFIERS**



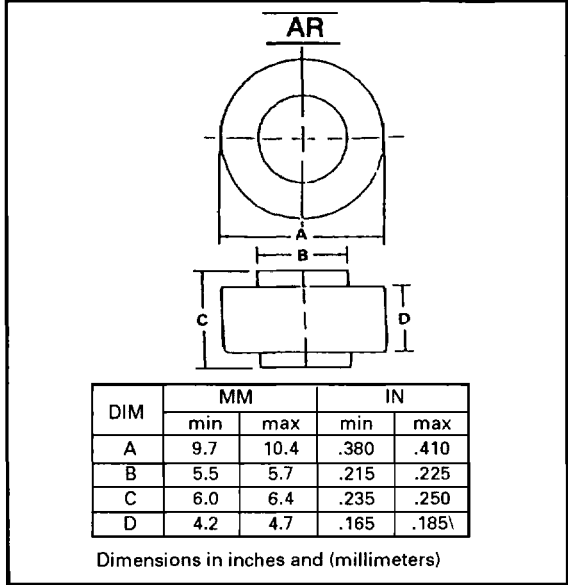
**VOLTAGE RANGE**  
50 to 1000 Volts  
**CURRENT**  
25, 35 Amperes

**FEATURES**

- Low cost
- Glass passivated junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Chlorothene and similar solvents
- The plastic material carries U/L recognition 94V-O

**MECHANICAL DATA**

Case: Molded plastic case  
 Terminals: Plated terminals solderable per MIL-STD-202, Method 208  
 Polarity: Color ring denotes cathode  
 Weight: 0.07 ounce, 1.8 grams  
 Mounting position: Any



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

		AR25005G	AR2501G	AR2502G	AR2504G	AR2506G	AR2508G	AR2510G	UNITS
		AR35005G	AR3501G	AR3502G	AR3504G	AR3506G	AR3508G	AR3510G	
Polarity and Voltage Denotation Color Band		Red	Yellow	Silver	Orange	Green	Blue	Violet	
Maximum Recurrent Peak Reverse Voltage	$T_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ $T_C=150^\circ C$	$I_{AV}$					25			A
						35			
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$					400			A
						500			
Maximum Forward Voltage $AR25 @ I_F 25A$ $AR35 @ I_F 35A$	$V_F$					1.0			V
						1.0			
Maximum D.C Reverse Current at Rated D.C Blocking Voltage $T_C=25^\circ C$ $T_C=100^\circ C$	$I_n$					5.0			$\mu A$
						250			
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$					1.0			$^\circ C/W$
Typical Junction Capacitance (Note 2)	$C_J$					200			pF
Storage and Operating Temperature Range	$T_j, T_{STG}$					-50 to +175			$^\circ C$

NOTES: 1. Thermal Resistance from Junction to Ambient  
 2. Measured at 1 MHz and applied reverse voltage of 4.0 Volts.

FIG. 1 - FORWARD CURRENT DERATING CURVE

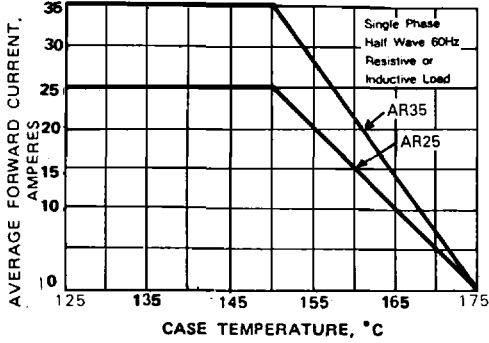


FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

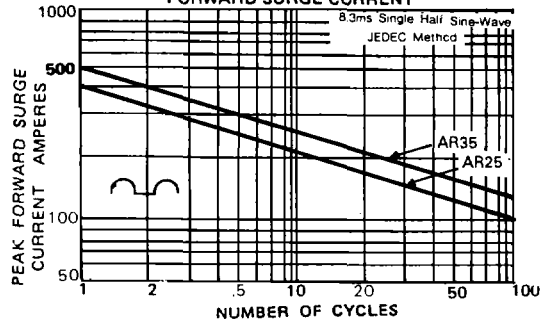


FIG. 2 - TYPICAL FORWARD CHARACTERISTIC

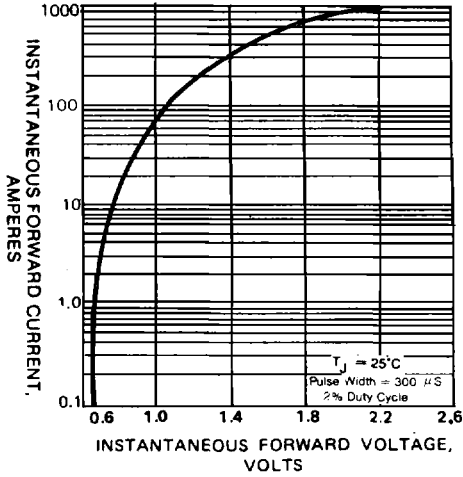


FIG. 4 - TYPICAL REVERSE CHARACTERISTIC

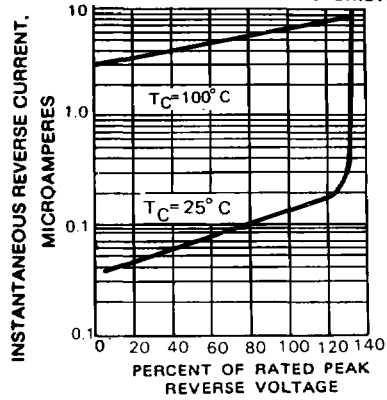


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

