

High-reliability discrete products and engineering services since 1977

12A STANDARD RECOVERY RECTIFIER

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Rating	Symbol	MR1120	MR1121	MR1122	MR1123	MR1124	MR1125	MR1126	MR1128	MR1130	Unit
Peak repetitive reverse voltage	V _{RRM}										
Working peak reverse voltage	VRWM	50	100	200	300	400	500	600	800	1000	V
DC blocking voltage	VR										
Non-repetitive peak reverse voltage (½ wave, single phase, 60 cycle peak)	Vrsm	100	200	300	400	500	600	720	1000	1200	V
RMS reverse voltage	V _{R(RMS)}	35	70	140	210	280	350	420	560	700	v
Average rectified forward current (Rated V _R)	lo	12 @ T _C = 150°C								А	
Peak repetitive forward current	IFRM	75 @ T _C = 150°C								А	
Non-repetitive peak surge current (superimposed on rated current at rated voltage, T _c = 150°C)	IFSM	300 for ½ cycle							А		
<pre>I²t rating (non repetitive, 1ms < t < 8.3ms)</pre>	l²t	375							A _(rms) ² S		
Operating and storage junction temperature range	TJ, Tstg	-65 to +190						°C			
Maximum thermal resistance Junction to case	R _{ejc}	2.5							°C/W		

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	MR1120	MR1121	MR1122	MR1123	MR1124	MR1125	MR1126	MR1128	MR1130	Unit
Full cycle average forward voltage drop ($I_0 = 12A$ and rated V_R , $T_C = 150$ °C, half wave)	V _{F(AV)}	0.55					v				
DC forward voltage drop (I _F = 12Adc, T _C = 25°C)	VF	1.0					v				
Full cycle average reverse current $(I_0 = 12A \text{ and rated } V_R, T_C = 150^\circ C, \text{ half wave})$	I _{R(AV)}	1.5						mA			
DC reverse current (Rated V _R , T _C = 25°C)	I _R	0.5						mA			

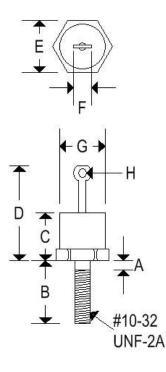


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MECHANICAL CHARACTERISTICS

Case	DO-4(R)			
Marking	Alpha-numeric			
Normal polarity	Cathode is stud			
Reverse polarity	Anode is stud (add "R" suffix)			

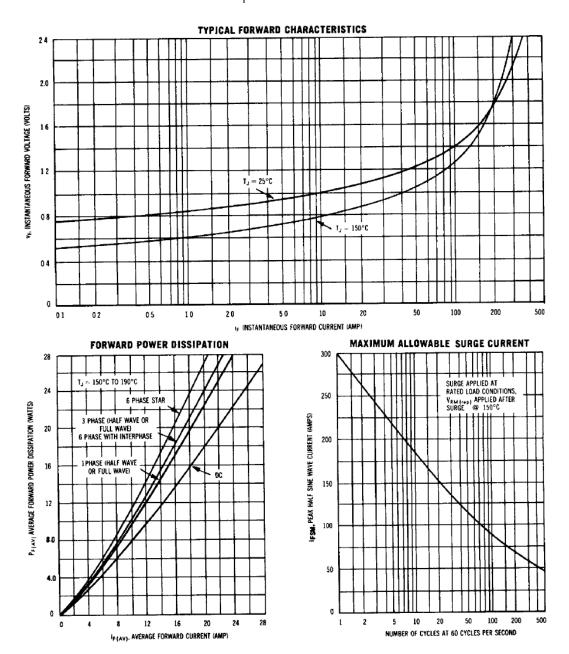


	DO-4(R)								
	Inc	hes	Millimeters						
	Min	Max	Min	Max					
Α	-	0.078	-	1.981					
В	0.422	0.453	10.719	11.506					
С	-	0.405	-	10.287					
D	-	0.800	-	20.320					
Ε	0.420	0.440	10.668	11.176					
F	-	0.250	-	6.350					
G	-	0.424	-	10.770					
Н	0.066	-	1.676	-					



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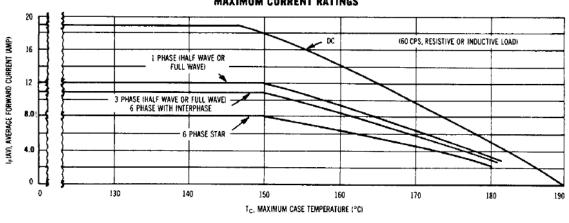
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MAXIMUM CURRENT RATINGS



