

A115A-A115M

High-reliability discrete products and engineering services since 1977

FAST RECOVERY RECTIFIERS

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

Symbol	A115F	A115A	A115B	A115C	A115D	A115E	A115M	Units		
V _{RRM}	50	100	200	300	400	500	600	V		
V _{RMS}	35	70	140	210	280	350	420	V		
V _{R(DC)}	50	100	200	300	400	500	600	V		
Io										
	3.0 5.0				А					
I _{FSM}	I _{FSM} 110									
				200				A		
l ² t		20.0			A ² s					
Tر			-65° to 150			°C				
	T _{stg} -65° to 175			°C						
	V _{RRM} V _{RMS} V _{R(DC)} I ₀	VRRM 50 VRMS 35 VRIDC) 50 Io 1 IFSM 1 TJ T	V 50 100 V RMS 35 70 V R(DC) 50 100 Io I I II I FSM I III I I III IIII	V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{R(DC)} 50 100 200 I _O I I I I _{FSM} I I I I _{FSM} I I I	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		

(1) For capacitive load derate current by 20%.

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

Parameter	Symbol	A115F	A115A	A115B	A115C	A115D	A115E	A115M	Units
Maximum instantaneous forward voltage drop @ 5A	V _F				1.1				v
Maximum reverse current @ T」 = 25°C @ T」 = 150°C	I _R	2 100	2 100	5 300	5 300	5 300	5 200	5 200	mA
Typical reverse recovery time	t _{rr}				140				ns
Maximum reverse recovery time	t _{rr}	-rr 200			ns				



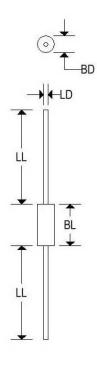
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MECHANICAL CHARACTERISTICS

Case:	SOD-64
Marking:	Body painted, alpha-numeric
Polarity:	Cathode band



		SC)D-64		
	Inc	hes	Millimeters		
	Min	Max	Min	Max	
BD	0.169	0.250	4.300	6.350	
BL		0.300	5	7.620	
LD	0.048	0.053	1.219	1.350	
LL	1.024	1.102	26.000	28.000	



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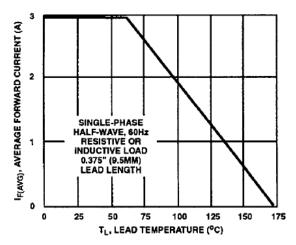


FIGURE 1. MAXIMUM AVERAGE FORWARD OUTPUT CURRENT CHARACTERISTIC

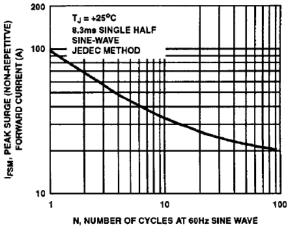


FIGURE 2. MAXIMUM PEAK SURGE (NON-REPETITIVE) FORWARD CURRENT CHARACTERISTIC

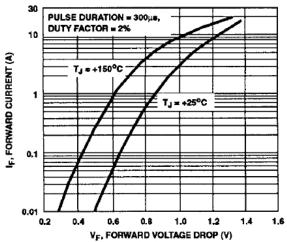
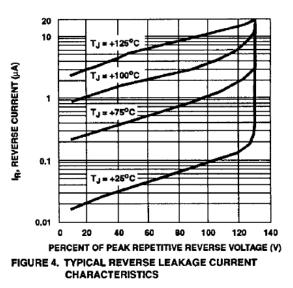


FIGURE 3. TYPICAL INSTANTANEOUS FORWARD CURRENT CHARACTERISTIC





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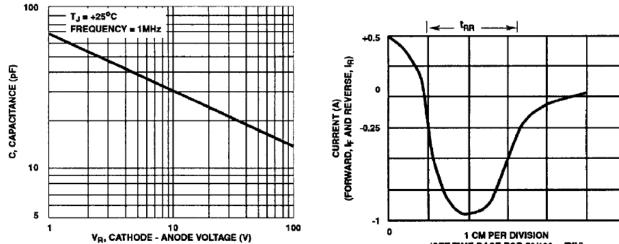


FIGURE 5. TYPICAL JUNCTION CAPACITANCE CHARACTERISTIC



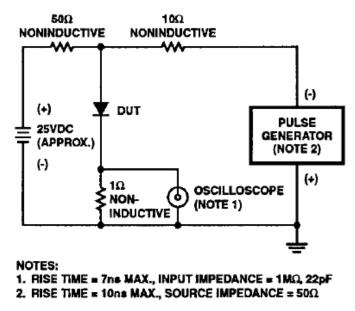


FIGURE 7. REVERSE-RECOVERY TIME TEST CIRCUIT