

1.5 AMP FAST RECOVERY RECTIFIERS

Reverse Voltage - 50 to 1000 V Forward Current – 1.5 A

FEATURES

- Low forward voltage drop
- ≻High current capability
- ≻High reliability
- ≻High surge current capability

MECHANICAL DATA

- ➤Case: Molded plastic
- ➢Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- >Polarity: Color band denotes cathode end
- ➤Mounting position: Any
- ≻Weight: 0.40 grams
- >Both normal and Pb free product are available:
- ➢Normal:80~95%Sn,5~20%Pb
- Pb free:99 Sn above can meet Rohs environment substance directive request

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

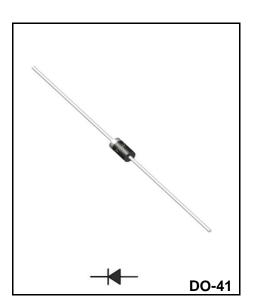
Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load.For capacitive load, derate current by 20%.

TYPE NUMBER	FR151	FR152	FR153	FR154	FR155	FR156	FR157	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=75°C		1.5					A	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		50			A			
Maximum Instantaneous Forward Voltage at 1.5A		1.3			V			
Maximum DC Reverse CurrentTa=25°C		5.0		μA				
at Rated DC Blocking VoltageTa=100 $^\circ\!\mathrm{C}$		100			μA			
Maximum Reverse Recovery Time (Note 1)		150		250	50	00	nS	
Typical Junction Capacitance (Note 2)		30			pF			
Operating and Storage Temperature Range $T_{J}, T_{\mathtt{STG}}$		-65+150			С			

NOTES:

1.Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.





RATING AND CHARACTERISTIC CURVES

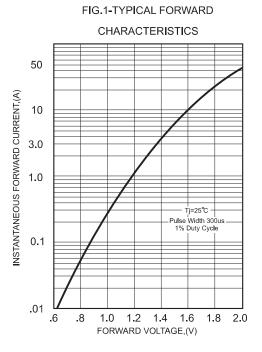
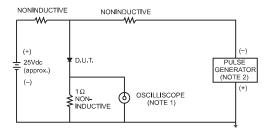
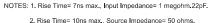


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS





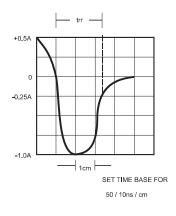
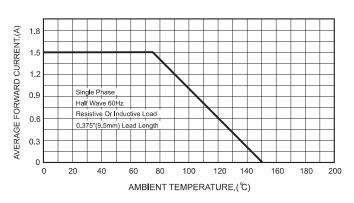
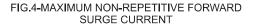
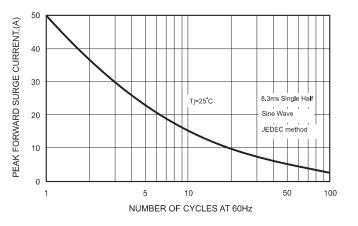


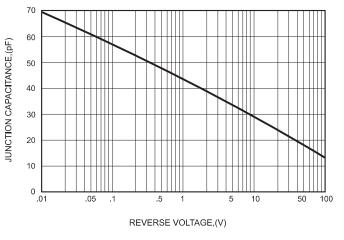
FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE











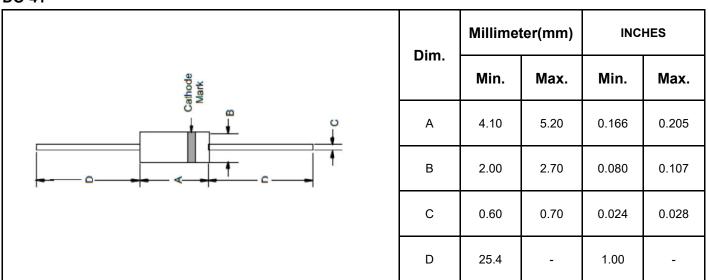


Ordering information

Package	Packing Description	Packing Quantity		
DO-41	bulk	1000PCS/Box 25000PCS/Carton		
	braid	5000PCS/Box 50000PCS/Carton		

Package Dimensions

DO-41







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