FAST RECOVERY RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts

FORWARD CURRENT 1.5 Ampere

FR157

FR151 THRU

FEATURES

Low forward voltage drop Low leakage current High forward surge capability High reliability High temperature soldering guaranteed 260°C/10 seconds,0.375″ (9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

Case: Transfer molded plastic Epoxy: UL94V-0 rate flame retardant Polarity: Color band denotes cathode end Lead: Plated axial lead, solderable per MIL-STD-202E method 208C Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

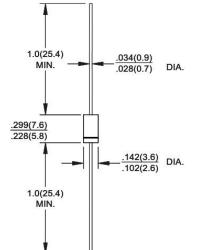
PARAMETER		SYMBOL	FR151	FR152	FR153	FR154	FR155	FR156	FR157	UNIT
Maximum Repetitive Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at T_A=55 $^\circ\!\!\mathbb{C}$		I(AV)	1.5							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	60							Amps
Maximum instantaneous forward voltage at 1.5A		V _F	1.3							VOLTS
Maximum DC Reverse Current at Rated	T a=25℃		5.0							– uA
DC blocking voltage	Ta=100℃	l R	100							
Maximum reverse recovery time (NOTE 1)		t _{rr}	150 250 500				00	ns		
Typical Junction Capacitance (Note 2)		CJ	25							pF
Typical Thermal Resistance (Note 3)		Reja	50							°C/W
Operating junction and storage temperature range		T _J ,Tstg	-55 to +150							°C

1- Reverse recovery condition If=0.5A,Ir=1.0A,Irr=0.25A.

2- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.

3-Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted.

Kingtronics[®] International Company

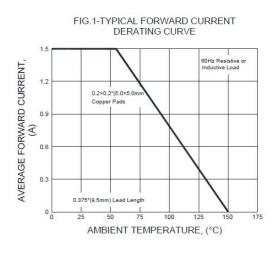


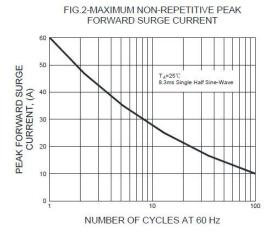
Dimensions in inches and (millimeters)

DO-15



RATINGS AND CHARACTERISTIC CURVES







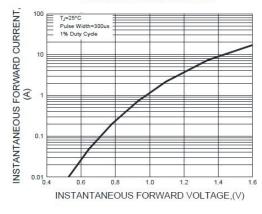
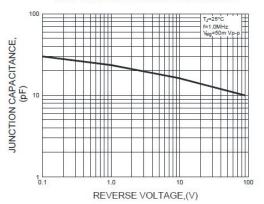
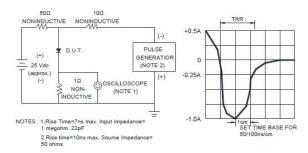


FIG.4-TYPICAL JUNCTION CAPACITANCE



F1G.5-TEST CIRCUIT DIAGRAM AND FORWARD SURGE CURRENT



Note: Specifications are subject to change without notice.

Kingtronics[®] International Company

2