



FR02-25 THRU FR02-60

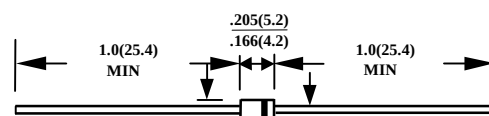
FAST RECOVERY HIGH VOLTAGE RECTIFIER

FEATURES

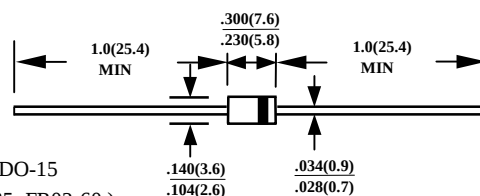
- FAST RECOVERY TIMES
- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOUND
- LOW COST
- DESIGNED FOR PHOTO FLASH APPLICATION
- BEVELED ROUND CHIP, AVALANCHE OPERATION

MECHANICAL DATA

- CASE : TRANSFER MOLDED
- LEADS : SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY : CATHODE INDICATED BY COLOR BAND
- WEIGHT : 0.34 GRAMS(DO-41)
0.40 GRAMS (DO-15)



CASE : DO-41
(FR02-25~FR02-30)



CASE : DO-15
(FR02-35~FR02-60)

DIMENSIONS IN INCHES AND (MILLIMETERS)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED
SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD.
FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	FR02-25	FR02-30	FR02-35	FR02-40	FR02-45	FR02-50	FR02-60	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V _{RRM}	2500	3000	3500	4000	4500	5000	6000	V
MAXIMUM RMS VOLTAGE	V _{RMS}	1750	2100	2450	2800	3150	3500	4200	V
MAXIMUM DC BLOCKING VOLTAGE	V _{DC}	2500	3000	3500	4000	4500	5000	6000	V
AVERAGE FORWARD RECTIFIED CURRENT AT L=10mm T _A =55°C	I _O	0.2							A
NOM-REPETITIVE PEAK FORWARD SURGE CURRENT, 8.3ms HALF SINE-WAVE	I _{FSM}	25					20		A
TYPICAL JUNCTION CAPACITANCE	C _J	6				4			PF
STORAGE TEMPERATURE RANGE	T _{STG}	-65 TO + 150							°C
OPERATING TEMPERATURE RANGE	T _{OP}	-65 TO + 125							°C

ELECTRICAL CHARACTERISTICS (A_T $T_A=25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

ELECTRICAL CHARACTERISTICS (at I _A = 25 mA UNLESS OTHERWISE NOTED)										
CHARACTERISTICS	SYMBOL	FR02-25	FR02-30	FR02-35	FR02-40	FR02-45	FR02-50	FR02-60	UNITS	
MAXIMUM FORWARD VOLTAGE AT 0.2A	V _F	6.0		8.0		12.0			V	
MAXIMUM REVERSE CURRENT AT 25°C	I _R	5.0								μA
TYPICAL REVERSE RECOVERY TIME	T _{RR}	500								nS

RATINGS AND CHARACTERISTICS CURVES FR02-25 THRU FR02-60

