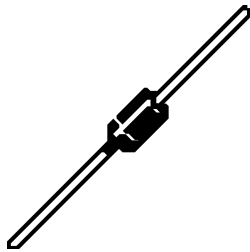




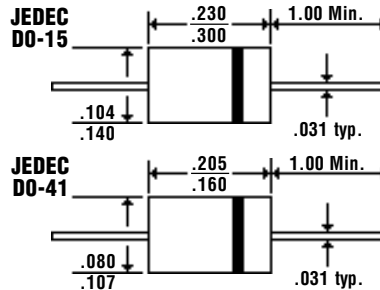
HIGH VOLTAGE, FAST RECOVERY MINIATURE PLASTIC RECTIFIERS

FR02 & FR05 Series

Description



Mechanical Dimensions



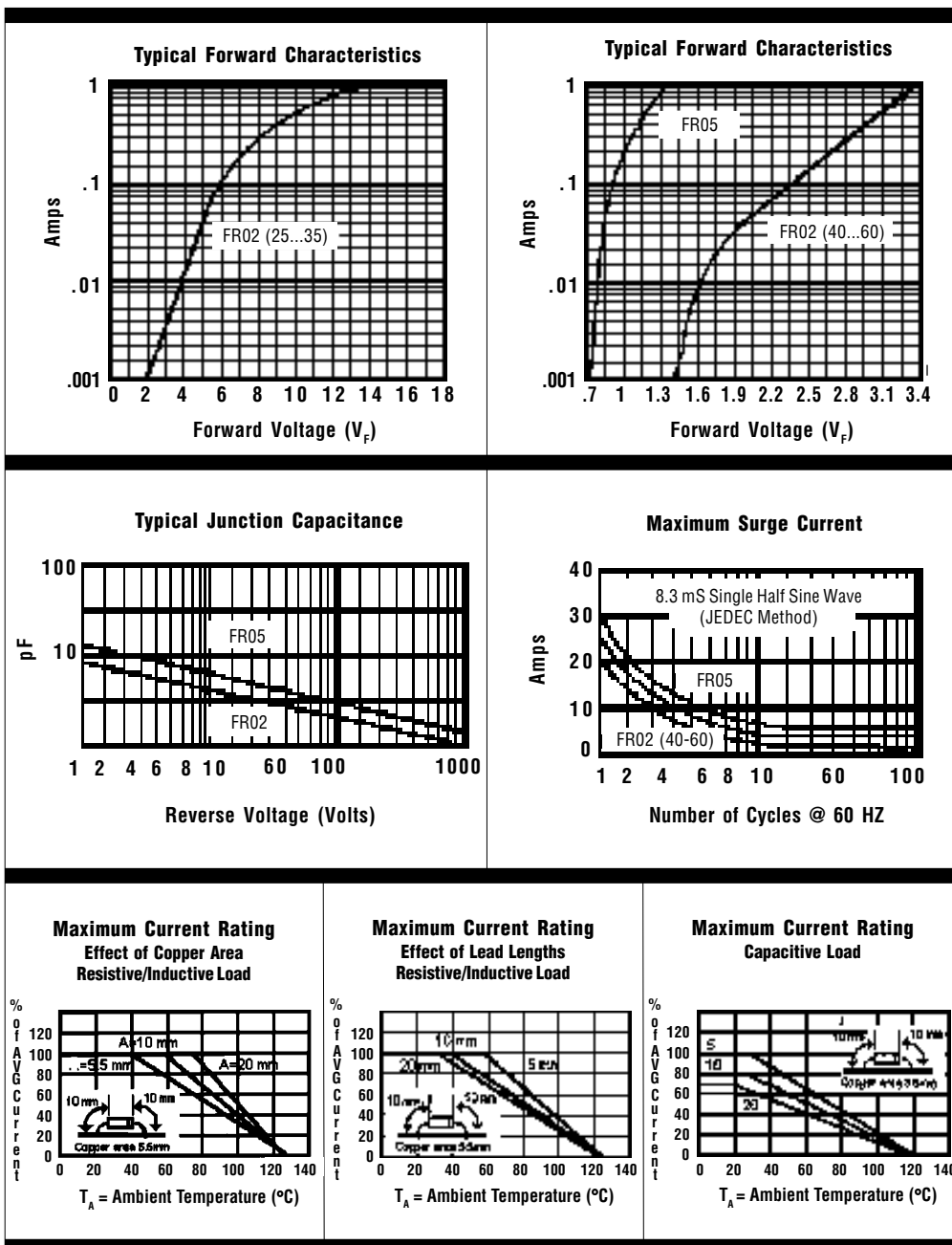
Features

- DESIGNED FOR PHOTO FLASH APPLICATIONS
- LOW COST
- BEVELED ROUND CHIP, AVALANCHE OPERATION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	FR02 & FR05 Series				Units
Maximum Ratings	FR02		FR05		
	(25-30)	(35-40)	(45-60)		
Average Forward Rectified Current... I_o @ $T_A = 55^\circ\text{C}$	0.2	0.2	0.2	0.5	Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, 8.3 mS, 1/2 Sine Wave	30				Amps
Forward Voltage... V_F @ $I_F = 0.2$ Amps (FR02) @ $I_F = 0.5$ Amps (FR05)	6.0	8.0	12.0	2.0	Volts
DC Reverse Current... I_R	5.0				μAmps
Typical Reverse Recovery Time... T_{RR}	500				nS
Typical Junction Capacitance... C_j	6.0	6.0	4.0	9.0	pF
Operating Temperature Range... T_J	-65 to 125				$^\circ\text{C}$
Storage Temperature Range... T_{STRG}	-65 to 150				$^\circ\text{C}$
Maximum Peak Inverse Voltage...	Type	Package		V_{RM}	
	FR05-10	DO-41		1000	Volts
	FR05-15	DO-41		1500	Volts
	FR05-16	DO-41		1600	Volts
	FR05-18	DO-41		1800	Volts
	FR05-20	DO-41		2000	Volts
	FR02-25	DO-41		2500	Volts
	FR02-30	DO-41		3000	Volts
	FR02-35	DO-15		3500	Volts
	FR02-40	DO-15		4000	Volts
	FR02-45	DO-15		4500	Volts
	FR02-50	DO-15		5000	Volts
	FR02-60	DO-15		6000	Volts

**HIGH VOLTAGE, FAST RECOVERY
MINIATURE PLASTIC RECTIFIERS**

FR02 & FR05 Series



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.