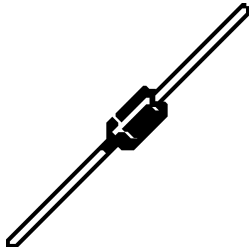
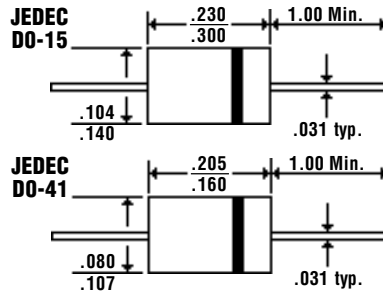


Description



Mechanical Dimensions

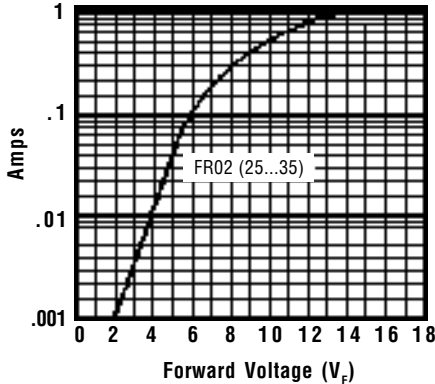


Features

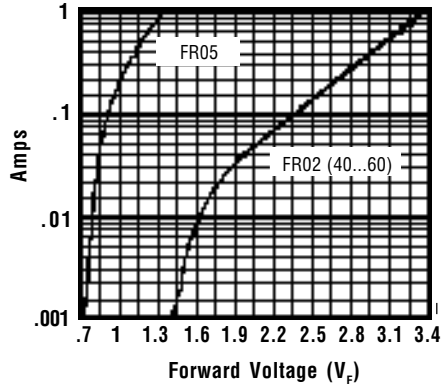
- DESIGNED FOR PHOTO FLASH APPLICATIONS
- LOW COST
- BEVELED ROUND CHIP, AVALANCHE OPERATION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	<i>FR02 & FR05 Series</i>			Units	
Maximum Ratings	(25-30)	FR02 (35-40)	(45-60)	FR05	
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				°C
Storage Temperature Range... T_{STRG}	-65 to 150				°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

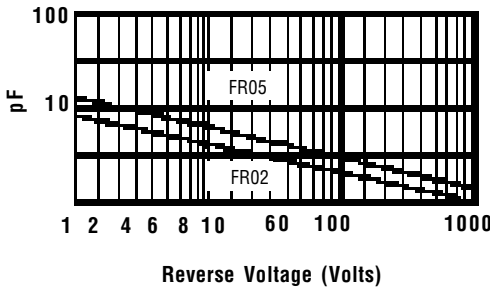
Typical Forward Characteristics



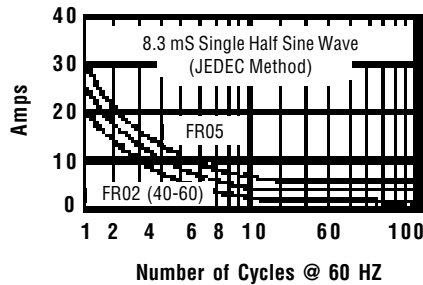
Typical Forward Characteristics



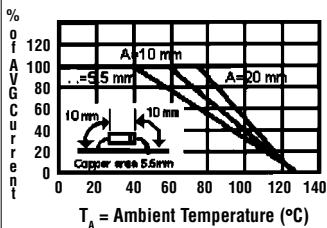
Typical Junction Capacitance



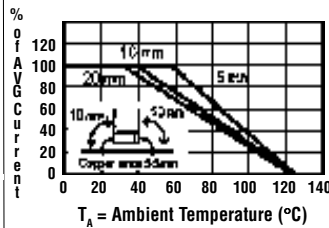
Maximum Surge Current



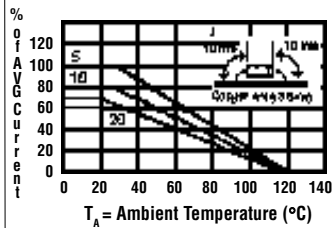
Maximum Current Rating
Effect of Copper Area
Resistive/Inductive Load



Maximum Current Rating
Effect of Lead Lengths
Resistive/Inductive Load



Maximum Current Rating
Capacitive Load



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%.