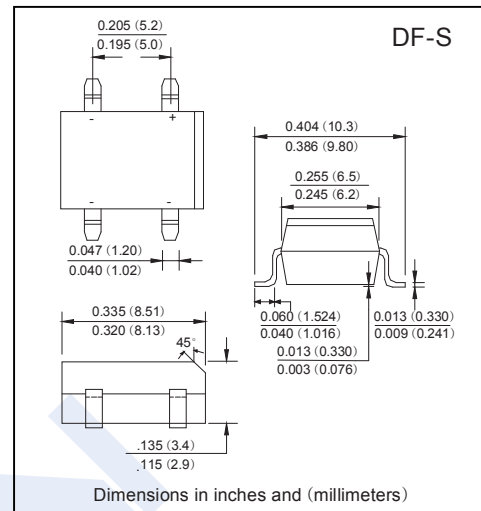


## Bridge Rectifiers

### DF005S ~ DF10S (KF005S ~ KF10S)

#### ■ Features

- Surge overload rating: 50 amperes peak.
- Glass passivated junction.
- Low leakage.



#### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	DF 005S	DF 01S	DF 02S	DF 04S	DF 06S	DF 08S	DF 10S	Unit	
Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
RMS Bridge Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000		
Forward Voltage, Per Element @ 1.0A	$V_F$	1.1								A
Averaged Forward Current, $T_a=40^\circ\text{C}$	$I_{FAV}$	1.5								
Peak Forward Surge Current	$I_{FSM}$	50								
Reverse voltage leakage current	$I_R$	5								uA
$T_a = 125^\circ\text{C}$		500								
Power Dissipation	$P_D$	3.1								W
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	40								$^\circ\text{C}/\text{W}$
$I^2t$ Rating for Fusing $t < 8.35\text{ms}$		10								$\text{A}^2\text{s}$
Total Capacitance, per leg $V_R = 4.0\text{V}$ , $f = 1.0\text{MHz}$	$C_T$	25								pF
Junction Temperature	$T_J$	150								$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to 150								

## Bridge Rectifiers

DF005S ~ DF10S (KF005S ~ KF10S)

### ■ Typical Characteristics

Figure 1. Non-Repetitive Surge Current

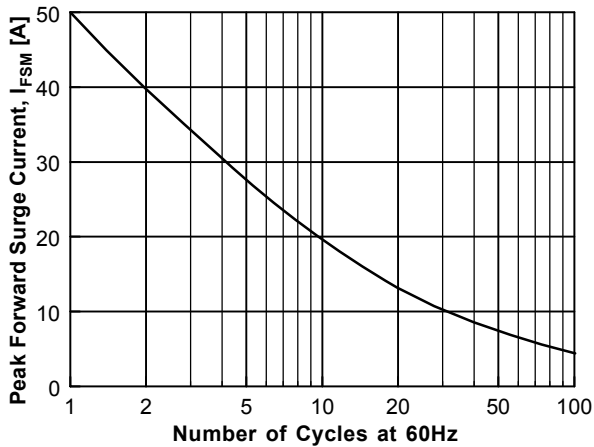


Figure 2. Forward Current Derating Curve

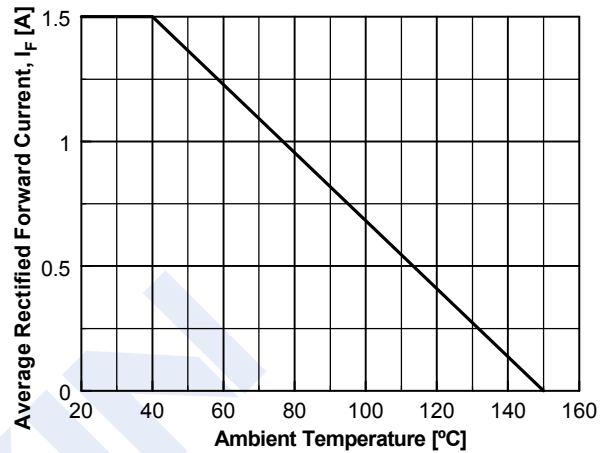


Figure 3. Forward Voltage Characteristics

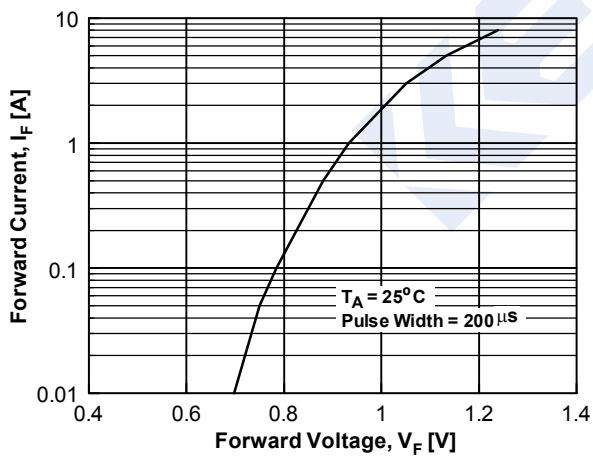


Figure 4. Reverse Current vs Reverse Voltage

