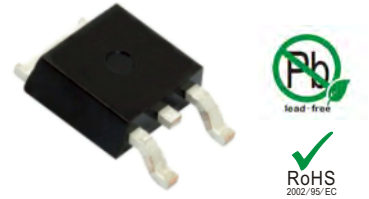


## Features

- Low reverse leakage
- High forward surge capability
- High reliability
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



## Mechanical Data

- Case: TO-252 Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free
- Mounting Position: Any
- Mounting torque: Recommend 0.3 N\*m

**TO-252**

## Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

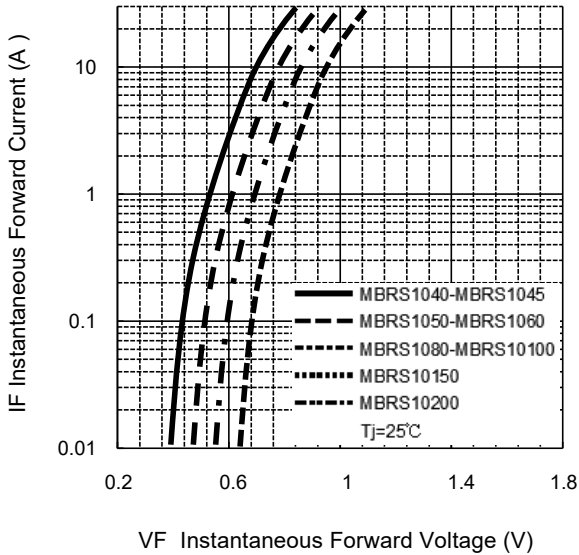
Parameter	Symbols	MBRS 1040	MBRS 1045	MBRS 1050	MBRS 1060	MBRS 1080	MBRS 10100	MBRS 10150	MBRS 10200	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	45	50	60	80	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	28	31.5	35	42	56	70	105	140	V
Maximum DC blocking voltage	$V_{DC}$	40	45	50	60	80	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	10.0								A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	$I_{FSM}$	100								A
@ $I_F=10.0A$ Maximum forward voltage	$V_F$	0.70	0.75	0.85	0.95					V
@ $V_{DC}$ Maximum reverse current	$I_R$	0.05								mA
TA= 25°C TA= 100°C		20								
Typical thermal resistance (Note 1)	$R_{\theta JA}$	3								°C/W
VR=4.0V,f=1MHz Type junction capacitance	$C_J$	300								pF
Operating junction temperature rang	$T_J$	-55 --- +150								°C
Storage temperature rang	$T_{STG}$	-65 --- +175								°C

Note:

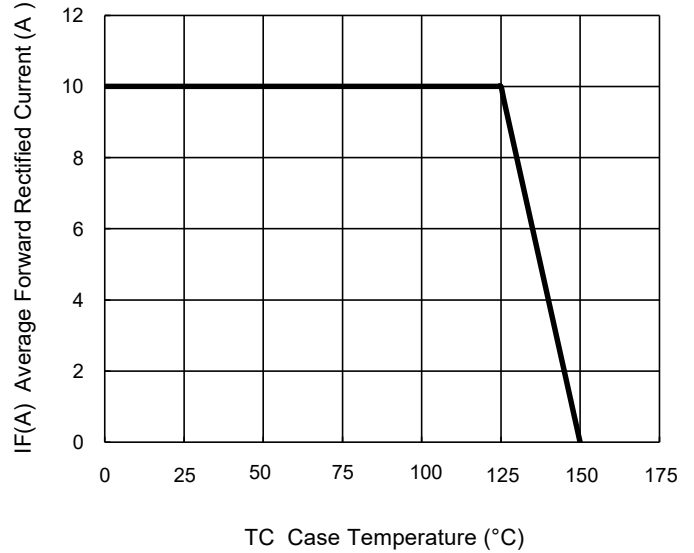
1) Thermal resistance from junction to case , PCB mounted.

## Characteristic Curves

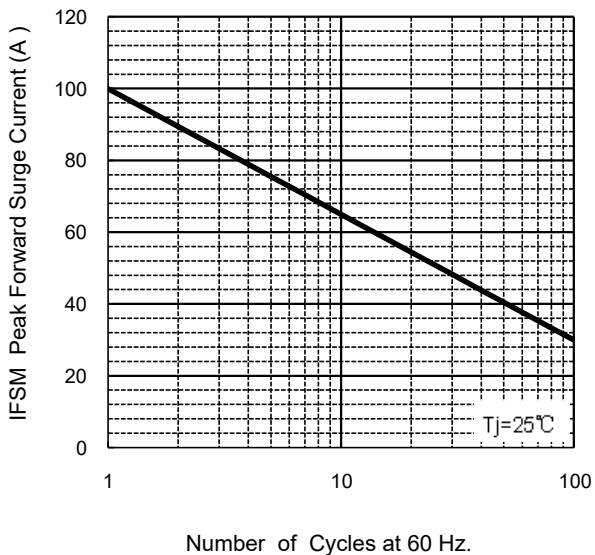
TYPICAL FORWARD CHARACTERISTIC



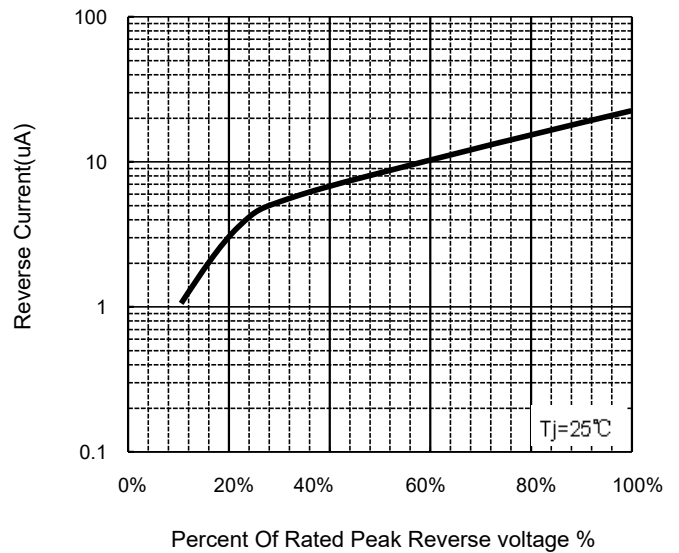
FORWARD CURRENT DERATING CURVE



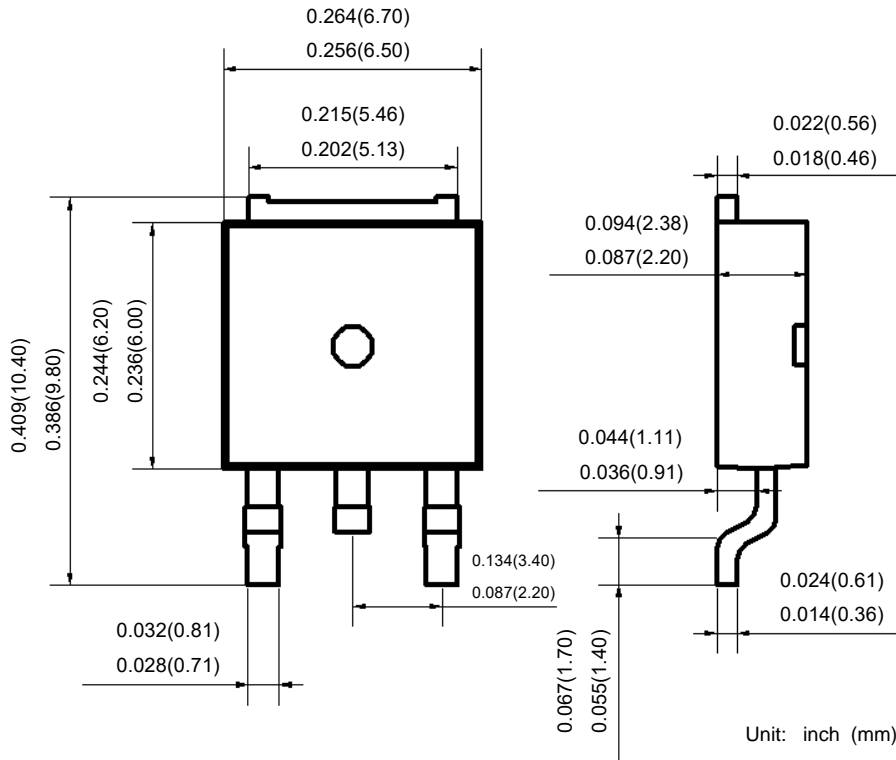
MAXIMUM NON REPETITIVE  
PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTICS



**Package Outline**



**Package Information**

Qty : 3,000/Tape and reel