

**16.0A SCHOTTKY BARRIER RECTIFIERS - 40V- 200V  
D2PAK PACKAGE**

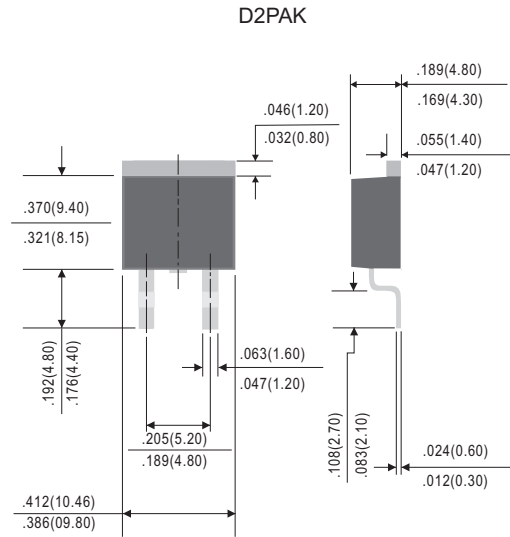
**Features**

- Batch process design, excellent power dissipation offers better reverse leakage current and thermal resistance.
- Low profile surface mounted application in order to optimize board space.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- High surge capability.
- Guardring for overvoltage protection.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- **Moisture Sensitivity Level 1**

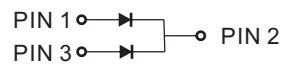
**Mechanical data**

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, TO-263 / D2PAK
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Mounting Position : Any
- Weight : Approximated 1.46 gram

**Package outline**



Dimensions in inches and (millimeters)



**Maximum ratings and Electrical Characteristics (AT T<sub>A</sub>=25°C unless otherwise noted)**

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	I <sub>O</sub>			16.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I <sub>FSM</sub>			150	A
Reverse current	V <sub>R</sub> = V <sub>RRM</sub> T <sub>J</sub> = 25°C	I <sub>R</sub>			0.5	mA
	V <sub>R</sub> = V <sub>RRM</sub> T <sub>J</sub> = 100°C				50	
Storage temperature		T <sub>STG</sub>	-55		+150	°C

SYMBOLS	V <sub>RRM</sub> <sup>*1</sup> (V)	V <sub>RMS</sub> <sup>*2</sup> (V)	V <sub>R</sub> <sup>*3</sup> (V)	V <sub>F</sub> <sup>*4</sup> (V)	Operating temperature T <sub>J</sub> , (°C)
SKFM1640C-D2	40	28	40	0.55	-55 to +125
SKFM1660C-D2	60	42	60	0.70	-55 to +150
SKFM16100C-D2	100	70	100	0.85	
SKFM16150C-D2	150	105	150	0.90	
SKFM16200C-D2	200	140	200	0.92	

- \*1 Repetitive peak reverse voltage
- \*2 RMS voltage
- \*3 Continuous reverse voltage
- \*4 Maximum forward voltage@I<sub>F</sub> = 8.0A

**Rating and characteristic curves**

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

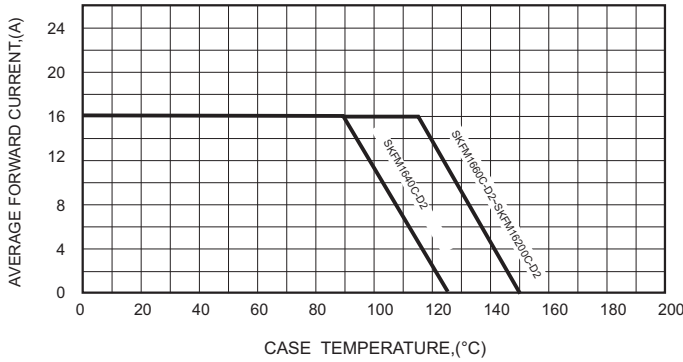


FIG.2-TYPICAL FORWARD CHARACTERISTICS

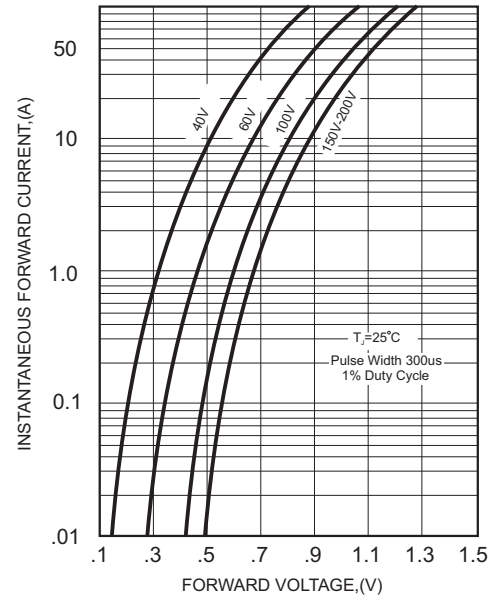


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

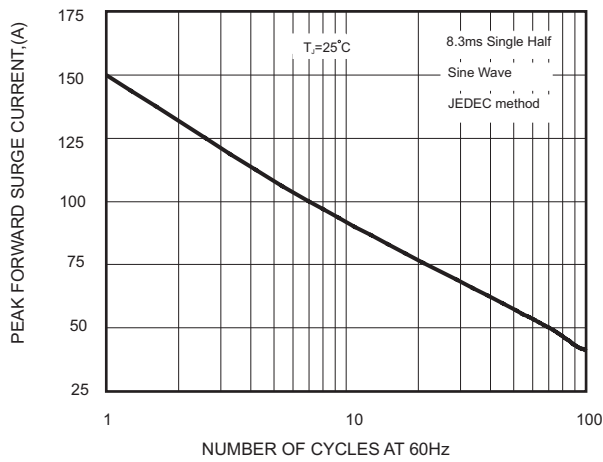
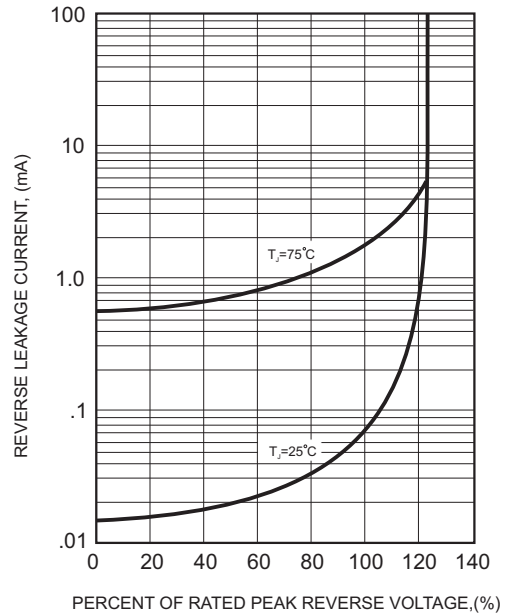
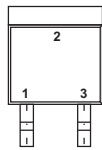
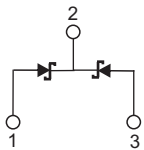


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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D2PAK PACKAGE**

**Pinning information**

Simplified outline	Symbol
	

**Reel packing**

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (m/m)	BOX (pcs)	INNER BOX (m/m)	REEL DIA, (m/m)	CARTON SIZE (m/m)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
D2PAK/TO-263	13"	800	16.0	800	337*337*37	330	350*330*360	6,400	15.0

**Marking**

Type number	Marking code
SKFM1640C-D2	SK1640
SKFM1660C-D2	SK1660
SKFM16100C-D2	SK16100
SKFM16150C-D2	SK16150
SKFM16200C-D2	SK16200

Note: D2: Package code, D2PAK

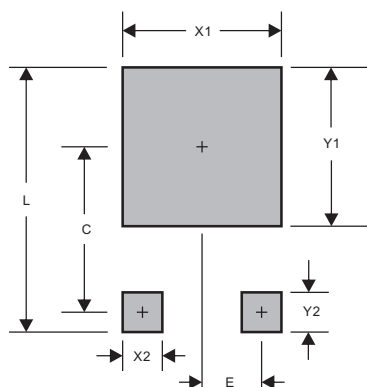
-T: Taping Reel

**Pb-Free package is available**

RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"

**Suggested solder pad layout**



PACKAGE	D2PAK
C	0.374(9.50)
E	0.098(2.50)
L	0.665(16.90)
X1	0.425(10.80)
X2	0.071(1.80)
Y1	0.449(11.40)
Y2	0.138(3.50)

Dimensions in inches and (millimeters)